ORDER NO. VRD9010M164

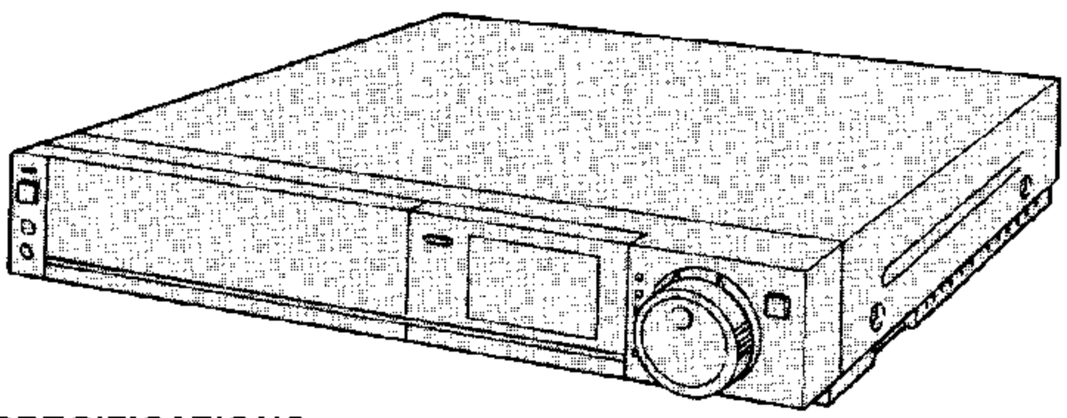
Service Manual

Video Cassette Recorder

Panasonic S-VHS VHS PAL 625

Hi-Fi HQ

NV-FS90



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Panasonic

SPECIFICATIONS

ITEM	SPECIFICATION		ITEM	SPECIFICATION
POWER	SOURCE: 220V 50/60Hz		VIDEO	OUTPUT: VIDEO OUT Connector (Phono type) 1.0Vp-p, 75Ω terminated EURO AV (AV 1) Connector (21 pin) 1.0Vp-p, 75Ω terminated S-VIDEO OUT Connector (4P) Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p, 75Ω unbalanced
	CONSUMPTION: 35 watts			
RECORDING SYSTEM	2 rotary heads, helical scanning system			
	PAL			
TV TUNER SYSTEM	Germany	VHF I: CHE2~CHE4 VHF III: CHS4~CHE12 VHF H: CHS11~CHS20 (PAL/SECAM B) 75Ω unbalanced UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced	AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)
	Italy	VHF I: CHA~CHH VHF III: CHS4~CHH2 VHF H: CHS11~CHS41 (PAL/SECAM B) 75Ω unbalanced UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced		INPUT: AUDIO IN (AV 2) Connector (Phono type) More than −10dBV (316mV), more than 50kΩ EURO AV (AV 1) Connector (21 pin) More than −10dBV (316mV), more than 10kΩ MICROPHONE JACK −70dBV
	Other Countries	VHF I: CHE2~CHS3 VHF III: CHM1~CHE12 VHF H: CHU1~CHS41 (PAL/SECAM B) 75Ω unbalanced UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced		OUTPUT: AUDIO OUT Connector (Phono type) −8dBV (400mV), Less than 1kΩ EURO AV (AV 1) Connector (21 pin) −6dBV (500mV), Less than 1kΩ HEAD PHONE Jack −30dBV, 8Ω
				TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
RF OUT SYSTEM	UHF: CH36±4 (PAL/SECAM G) 73^{+2}_{-3}dBμ, 75Ω terminated		TAPE FORMAT	S-VHS, VHS Cassette tape (Tape width 12.7mm)
			TAPE SPEED	SP: 23.39mm/s LP: 11.695mm/s Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time 2.5min. with 180min. type tape
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L′-R′ heads), 1 flying erase head		DIMENSIONS	430(W)×100(H)×383(D)mm
			WEIGHT	6.3kg
	INPUT: VIDEO IN (AV2) Connector (Phono type) 1.0Vp-p, 75Ω terminated EURO AV (AV1) Connector (21 pin) 1.0Vp-p, 75Ω terminated S-VIDEO IN Connector (4P) Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p, 75Ω unbalanced		STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Contoroller 2 pc. Audio Cables 1 pc. Digital Scanner 1 pc. Programme Sheet 1 pc. AC Mains Lead 1 pc. 4P Cable

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

1-4. SERVICING THE LUMINANCE & CHROMINANCE PACK C.B.A., HQ PACK C.B.A. & SERVO PACK C.B.A.

When servicing the LUMINANCE & CHROMINANCE PACK C.B.A., HQ PACK C.B.A. and SERVO PACK C.B.A., connections of Extension Cables are necessary as shown below.

PART NO.	PART NAME	PCS	CONNECTION
VFK0582	8P EXTENSION CABLE	1	PK3021–PK3021
VFK0583	9P EXTENSION CABLE	1	PK2204–PK2204
VFK0584	11P EXTENSION CABLE	2	PK2203–PK2203,PK3013–PK3013
VFK0585	12P EXTENSION CABLE	2	PK3011–PK3011,PK3012–PK3012
VFK0586	15P EXTENSION CABLE	3	PK2201–PK2201,PK2202–PK2202,PK3022–PK3022

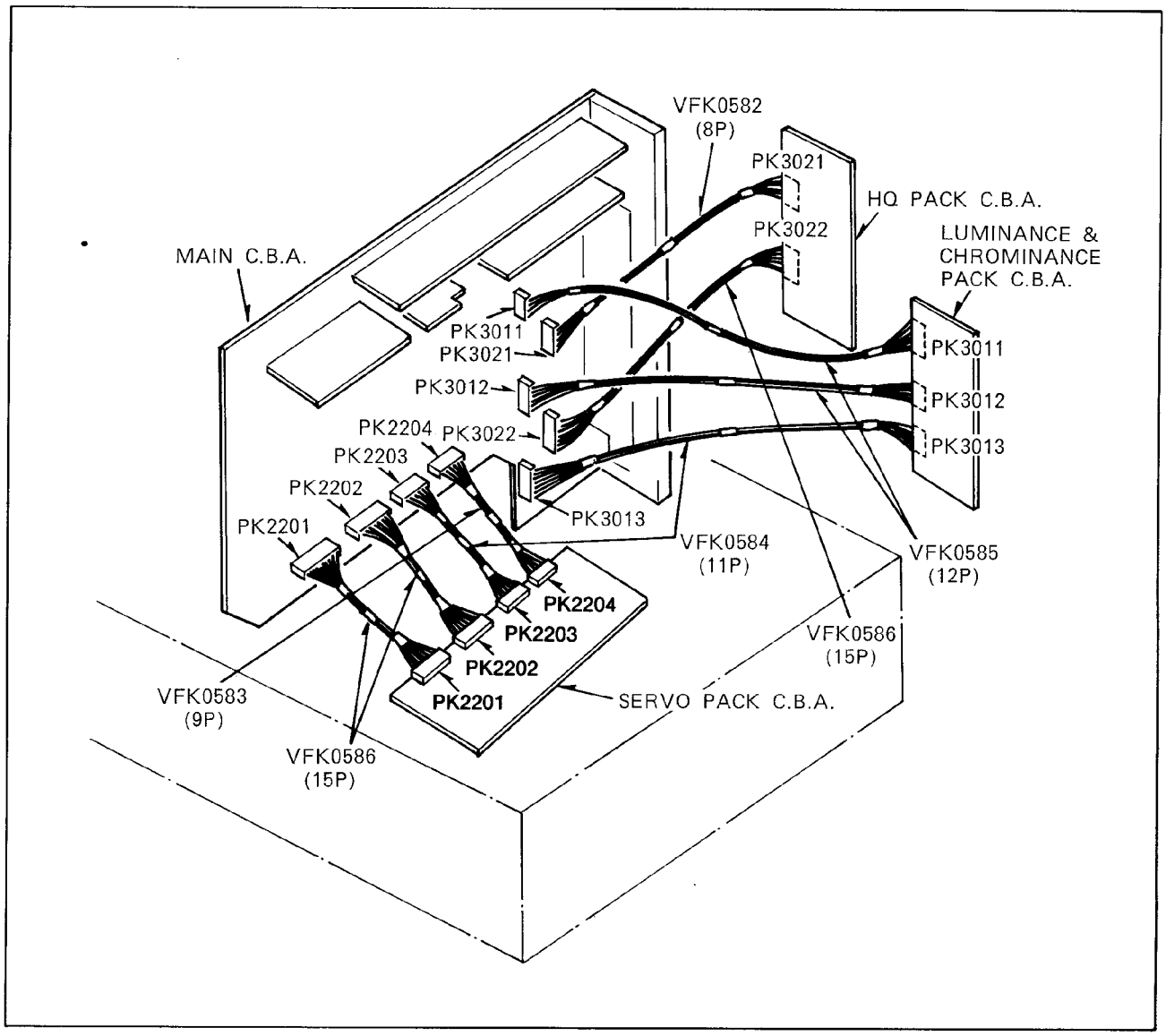


Fig. G13

SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1.DISASSEMBLY FLOWCHART

This flowchart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

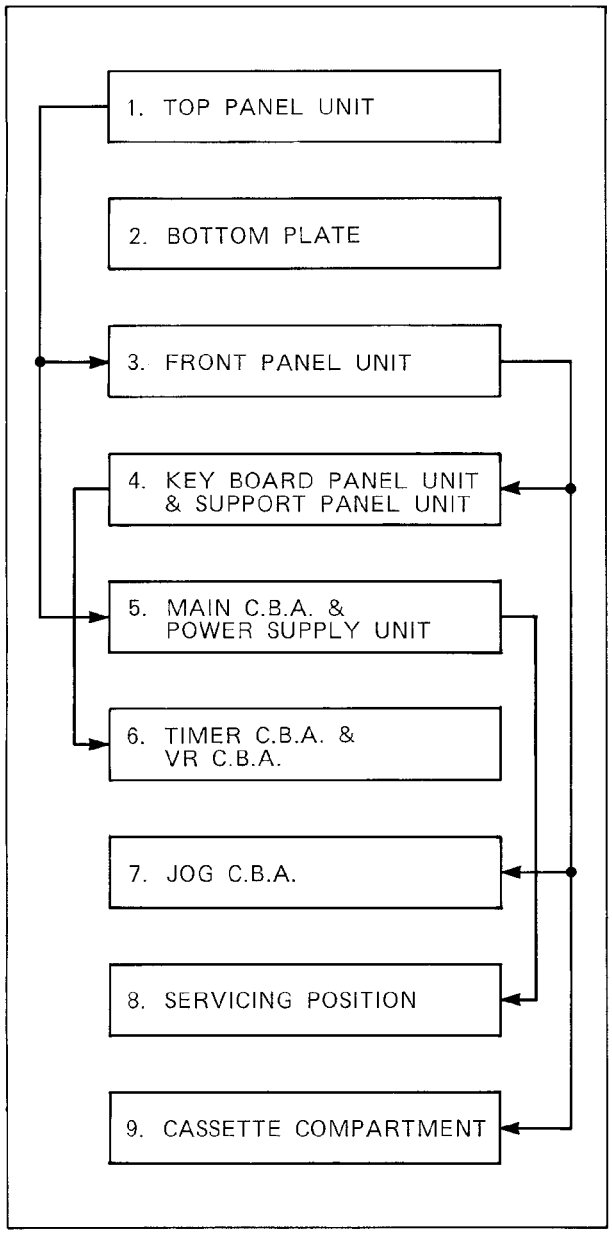

1. TOP PANEL UNIT
2. BOTTOM PLATE
3. FRONT PANEL UNIT
4. KEY BOARD PANEL UNIT & SUPPORT PANEL UNIT
5. MAIN C.B.A. & POWER SUPPLY UNIT
6. TIMER C.B.A. & VR C.B.A.
7. JOG C.B.A.
8. SERVICING POSITION
9. CASSETTE COMPARTMENT

Fig. D1

2-1-2.DETAIL OF DISASSEMBLE METHOD

1.REMOVAL OF THE TOP PANEL UNIT

* Remove.....4 Screws(A)

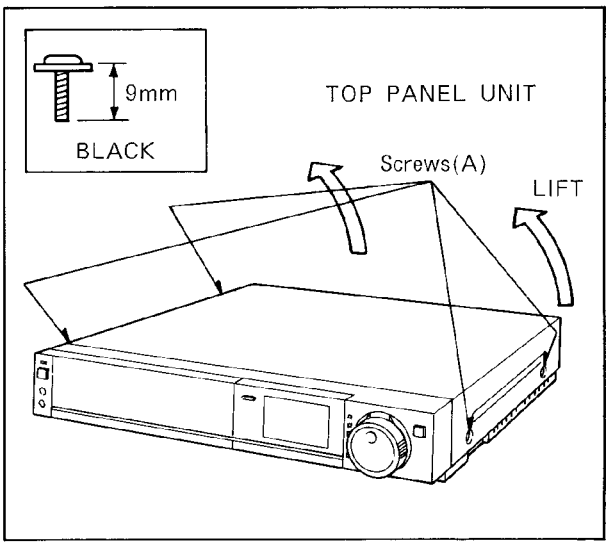


Fig. D2

2.REMOVAL OF THE BOTTOM PLATE

* Remove.....6 Screws(B)

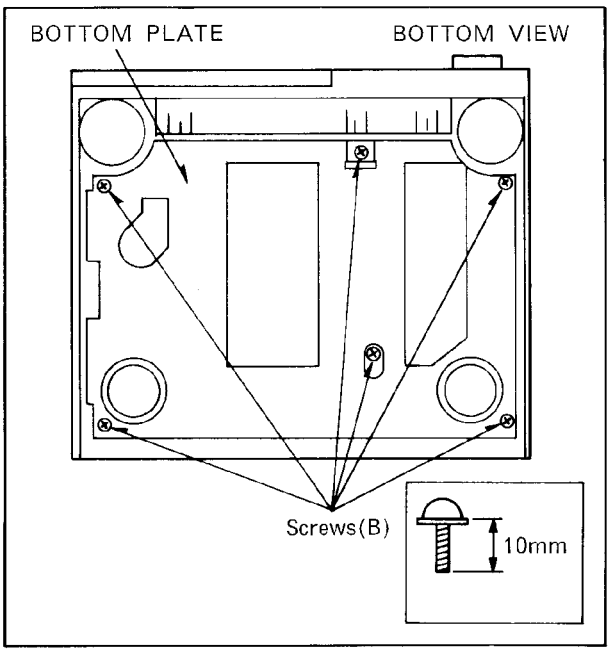


Fig. D3

3.REMOVAL OF THE FRONT PANEL UNIT

* Remove.....Screw(C)
  Unlock.....7 Tabs(D)
  Disconnect.....Connector(E)

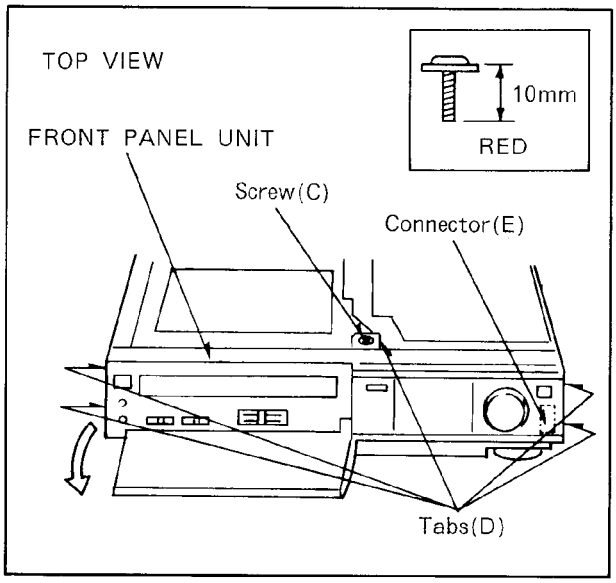


Fig. D4

4. REMOVAL OF THE KEY BOARD PANEL UNIT AND SUPPORT PANEL UNIT

* Remove.....3 Screws(F)
  Disconnect.....2 Connectors(G)
  Unlock.....3 Tabs(H)

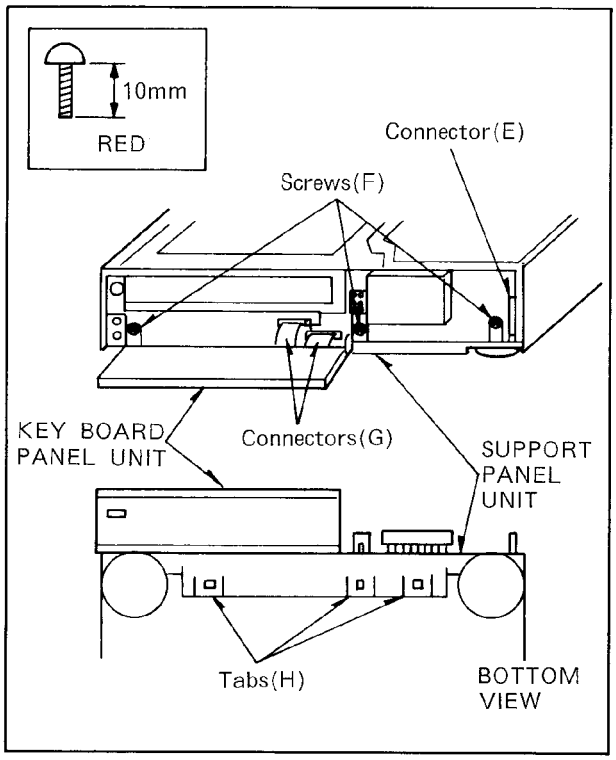


Fig. D5

5. REMOVAL OF THE MAIN C.B.A. AND POWER SUPPLY UNIT

REMOVAL OF THE MAIN C.B.A.

* Remove.....3 Screws(I), 4 Screws(J)

REMOVAL OF THE POWER SUPPLY UNIT

* Remove.....Screw(K), 2 Screws(L)

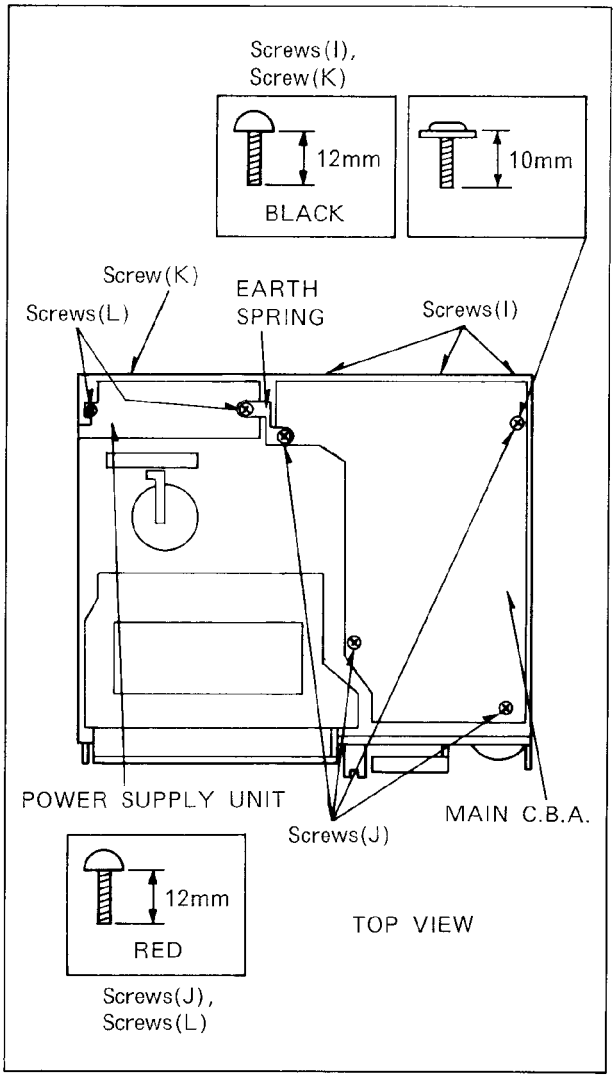


Fig. D6

6.REMOVAL OF THE VR C.B.A. AND TIMER C.B.A.

REMOVAL OF THE VR C.B.A.

* Remove.....Screw(M)
  Unlock.....2 Tabs(N)

REMOVAL OF THE TIMER C.B.A.

* Remove.....Screw(O)
  Unlock.....2 Tabs(P)

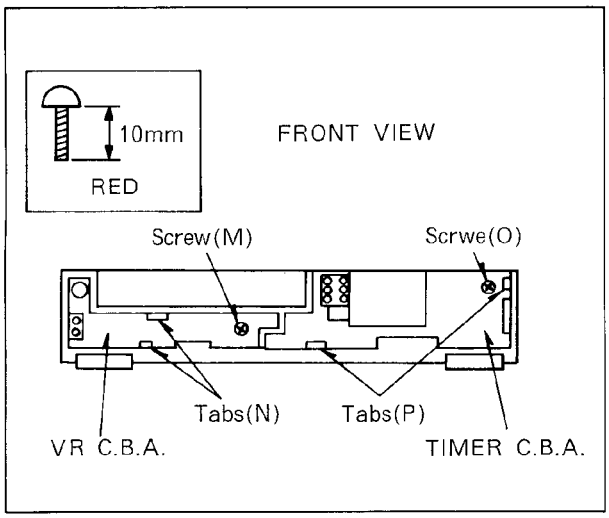


Fig. D7

7.REMOVAL OF THE JOG C.B.A.

* Remove.....4 Screws(Q)
  (2 Screws(R)...For the JOG DIAL)

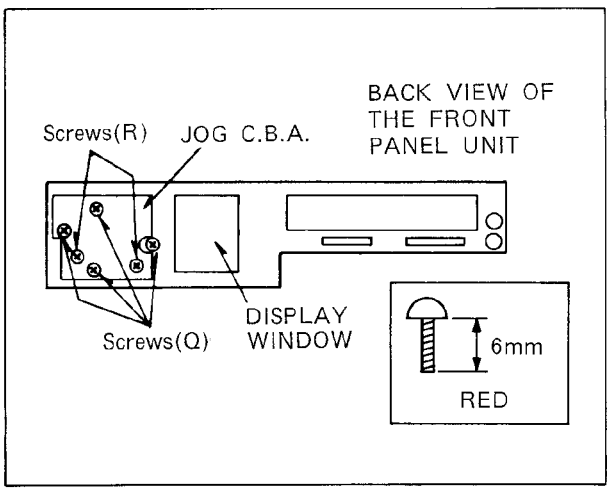


Fig. D8

8.SERVICING

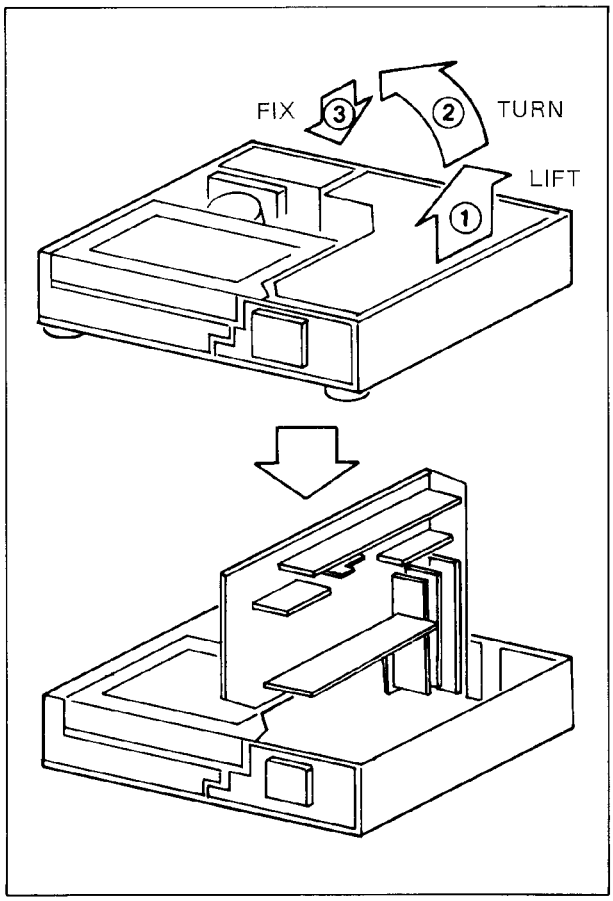


Fig. D9

9.REMOVAL OF THE CASSETTE COMPARTMANT

Remove 2 Screws(S) and slide the cassette holder until appearing 2 Screws(T) by turning(clockwise) the Capstan Rotor Unit (located in the bottom side) and then remove 2 Screws(T).
Remove the flexible wire from connector P1503 mounted on Take-up Photo Tr. C.B.A., then carefully pull out the cassette compartment.

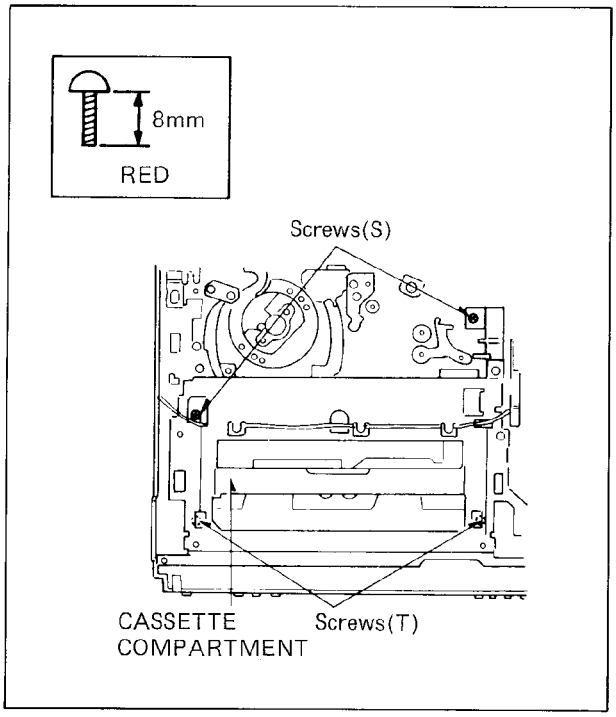


Fig. D10

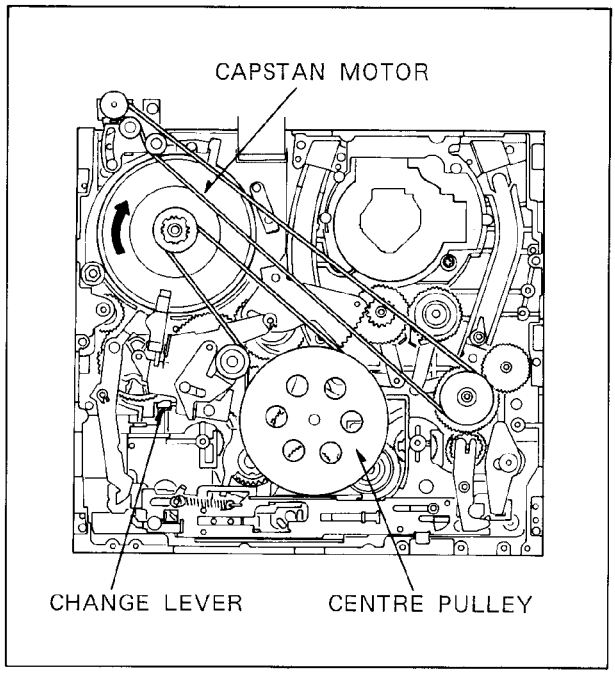


Fig. D11

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The Mechanical Chassis of this model is similar to the G-II Mechanical Chassis. Therefore please refer to the Service Manual "G-II/G-REV." (Order No.VRD8901M101), except the adjustment as shown below.

2-2-1.TAPE INTERCHANGEABILITY ADJUSTMENT

CAUTIONS:
Make a Test Mode as shown in Fig.M1 (Connect a Cut Jumper Wire.)

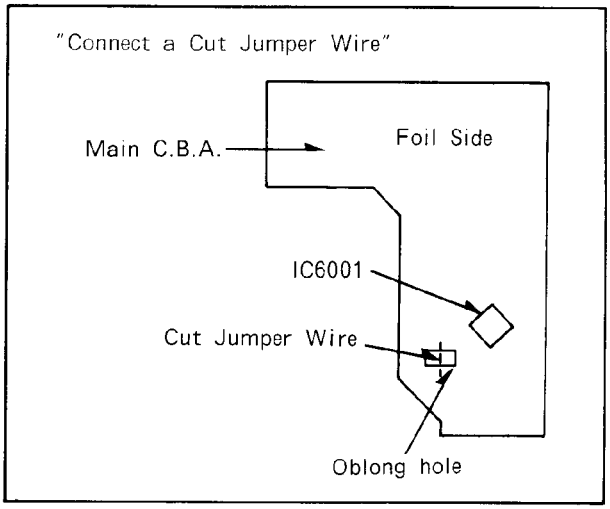
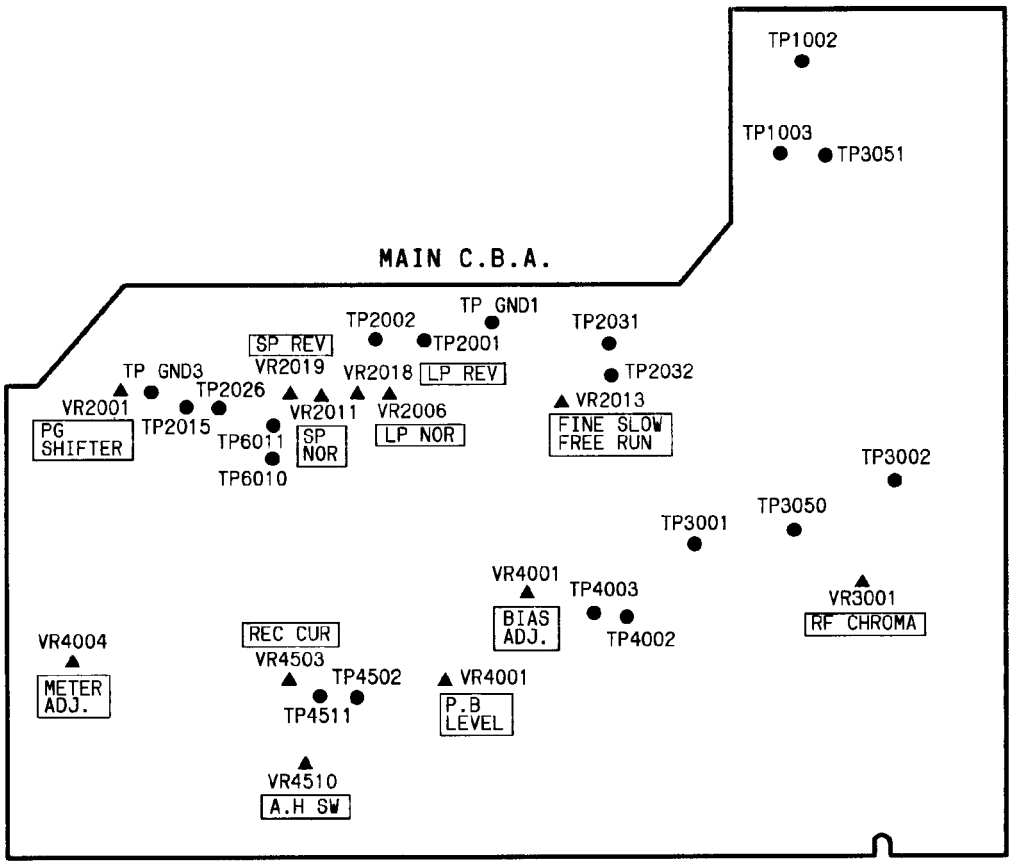


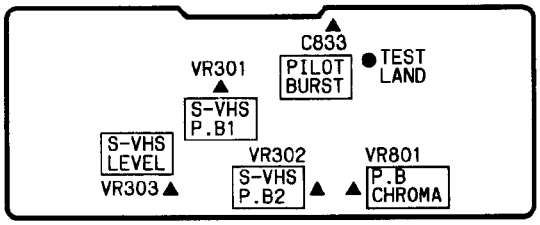
Fig. M1 Test Mode

NOTE:
Adjustment procedures and specifications are the same as the Service Manual "G-II/G-REV." item 2-2-9.
Please refer to the Service Manual "G-II/G-REV." (Order No.VRD8901M101).

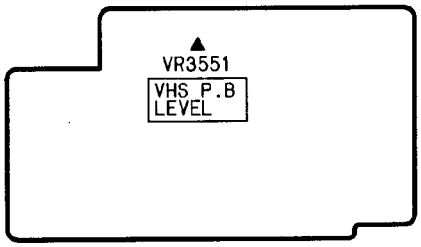
LOCATION OF TEST POINTS & CONTROLS



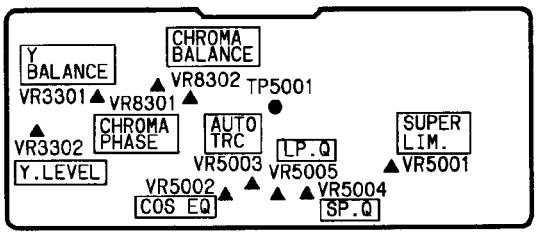
LUMINANCE & CHROMINANCE PACK C.B.A.



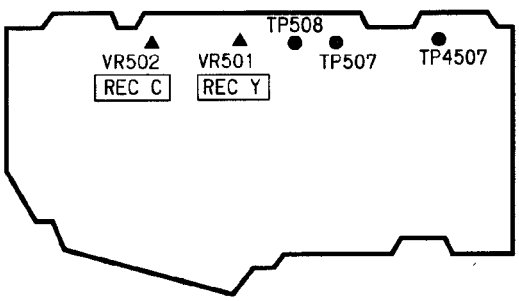
SUB LUMINANCE & CHROMINANCE C.B.A.

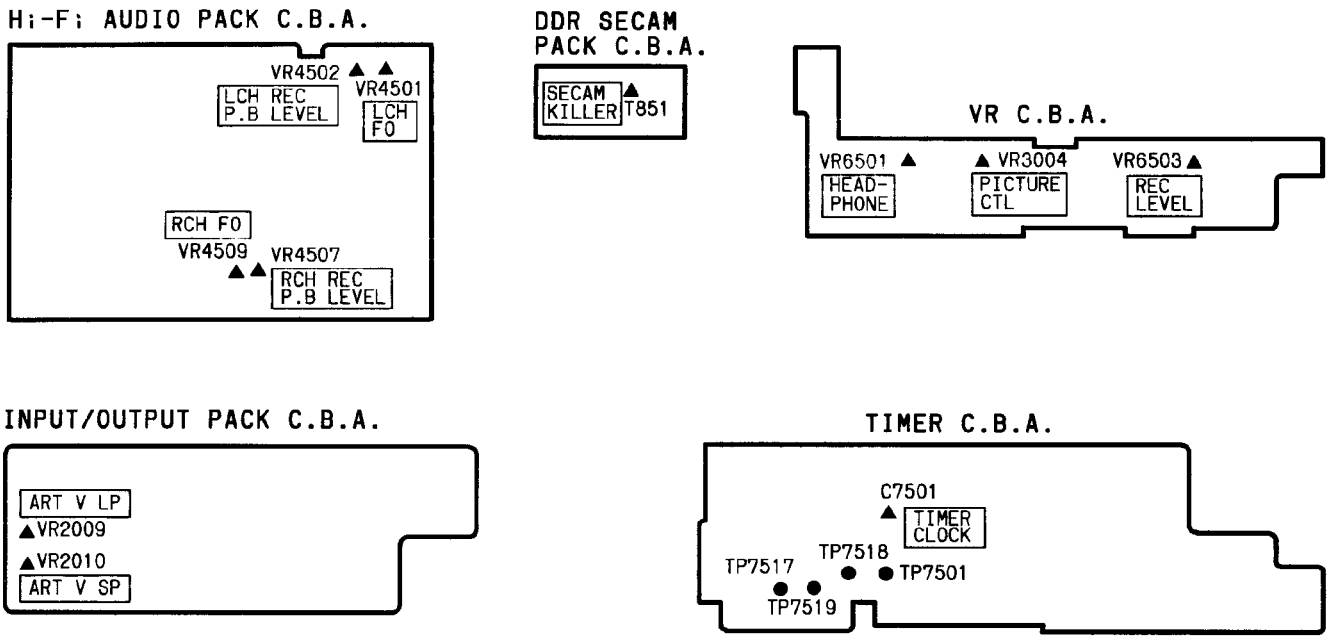


HQ PACK C.B.A.

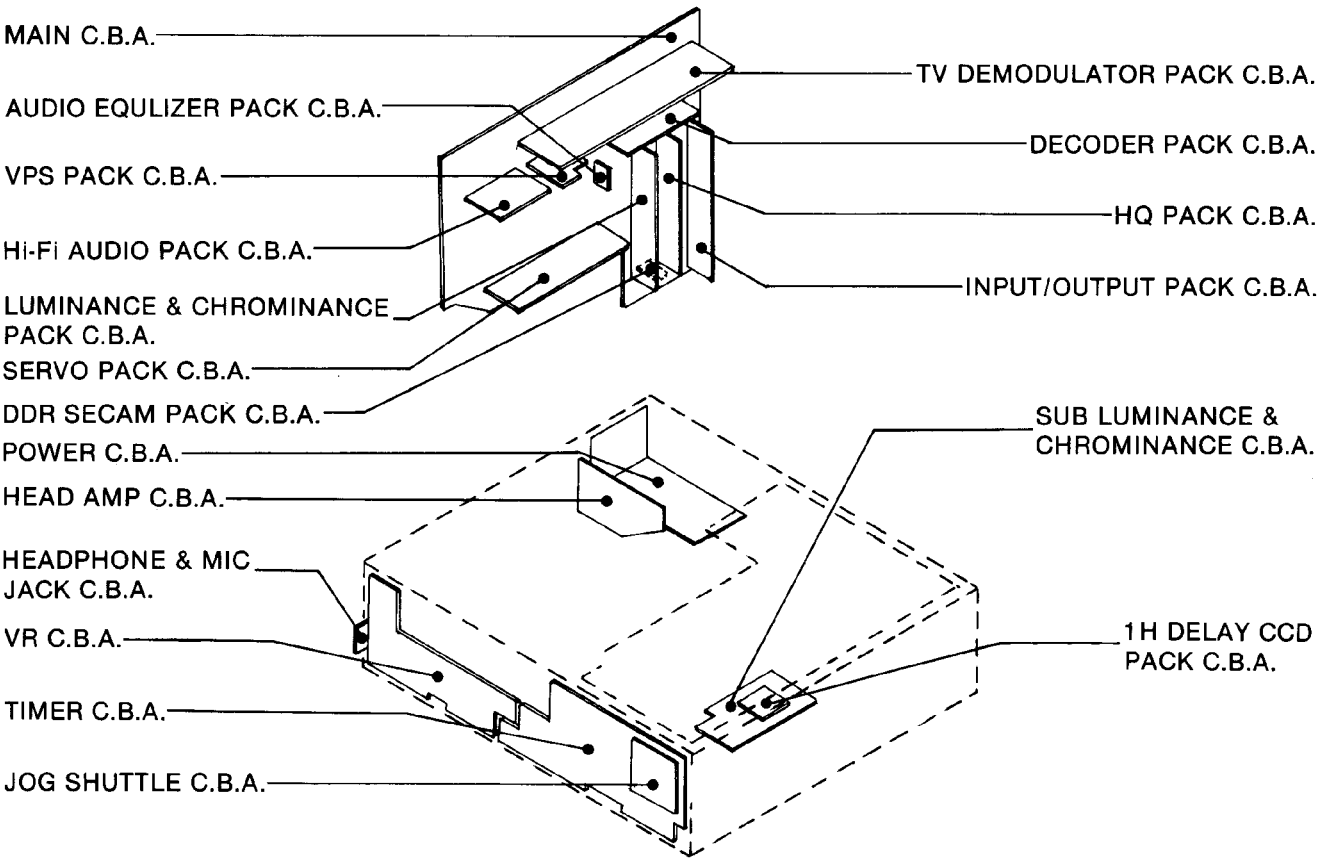


HEAD AMP C.B.A.





CIRCUIT BOARD LAYOUT



2-3. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete electrical adjustment procedures which may be required for electronic circuits of S-VHS Video Cassette Recorder NV-FS90EG.

2-3-1.TEST EQUIPMENTS

To perform the electrical adjustment completely, following equipments are required.

1. VTVM(Vacuum Tube Volt Meter) or DVM(Digital Volt Meter)
   Voltage Range : 0.001~50V
2. DUAL-TRACE OSCILLOSCOPE
   Voltage Range : 0.005~50V/div.
   Frequency Range : DC-30MHz
   Probes : 10:1
3. FREQUENCY COUNTER
   Frequency Range : 0~10MHz
4. SIGNAL GENERATOR(SINEWAVE)
   Frequency Range : 0~500KHz
5. VIDEO SWEEP GENERATOR
   Frequency Range : 0~10MHz
6. COLOUR MONITOR TV
7. PLASTIC TIP DRIVER
8. VHS ALIGNMENT TAPE(VFJ8125H3F)
9. PATTERN GENERATOR
10. VHS BLANK TAPE
11. S-VHS BLANK TAPE
12. VECTOR SCOPE

2-3-2.HOW TO READ THE ADJUSTMENT PROCEDURES

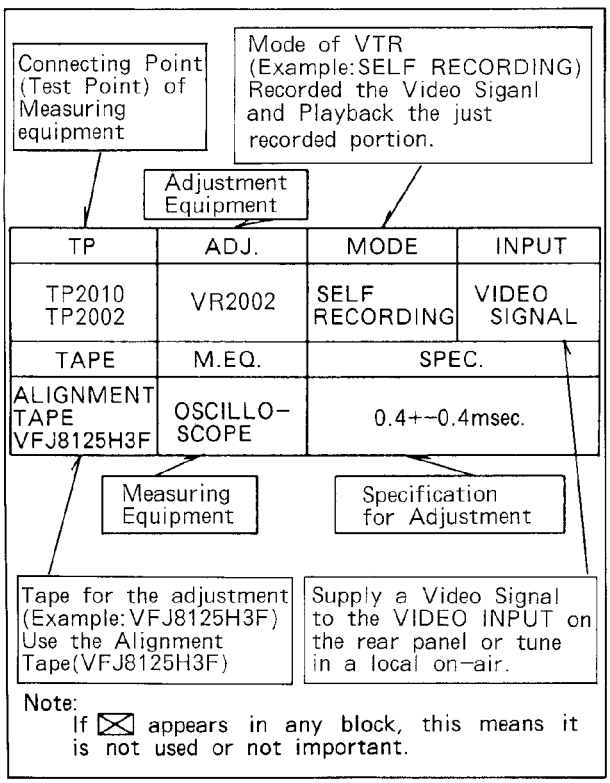

Connecting Point (Test Point) of Measuring equipment
Mode of VTR (Example:SELF RECORDING) Recorded the Video Siganl and Playback the just recorded portion.
Adjustment Equipment
TP
ADJ.
MODE
INPUT
TP2010 TP2002
VR2002
SELF RECORDING
VIDEO SIGNAL
TAPE
M.EQ.
SPEC.
ALIGNMENT TAPE VFJ8125H3F
OSCILLO-SCOPE
0.4+-0.4msec.
Measuring Equipment
Specification for Adjustment
Tape for the adjustment (Example:VFJ8125H3F) Use the Alignment Tape(VFJ8125H3F)
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air.
Note:
If ⊠ appears in any block, this means it is not used or not important.

Fig. E1

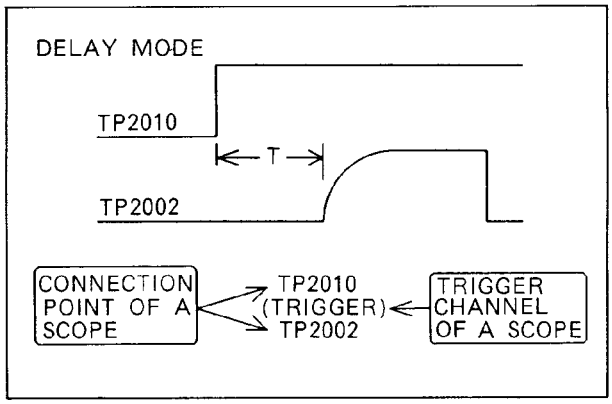


Fig. E2

NOTE:
Before the electrical adjustment, set the VTR as following conditions except for especial instructions in each adjustment item.

1. Picture Sharpness .....CENTRE FIX Position Control
2. Headphone Output Level .....CENTRE Position Control
3. Noise Filter/Edit Selector .....OFF Position
4. S-VHS Selector .....ON Position
5. Tape Spped Button .....SP Mode
6. Audio Recording Level .....AGC Position Control Selector
7. MPX Filter Switch .....OFF Position
8. Hi-Fi/Normal Mix Switch .....OFF Position
9. Tape Select Switch .....E180 Position
10. Input Signal Selector .....AV2(Line) Position
11. Simulcast Switch .....OFF Position
12. Test Signal Switch .....OFF Position
13. Normal/Y/C Selector .....NORMAL Position
14. Hi-Fi Rec Level .....CENTRE FIX Position Controls
15. Remote Control Mode Select .....VTR1 Position Switch
16. System Select Switch .....AUTO Position

SERVO Section

2-3-3.PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 HQ PACK-(7)	VR2001	PLAY	⊠
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	7.0+-0.5H	

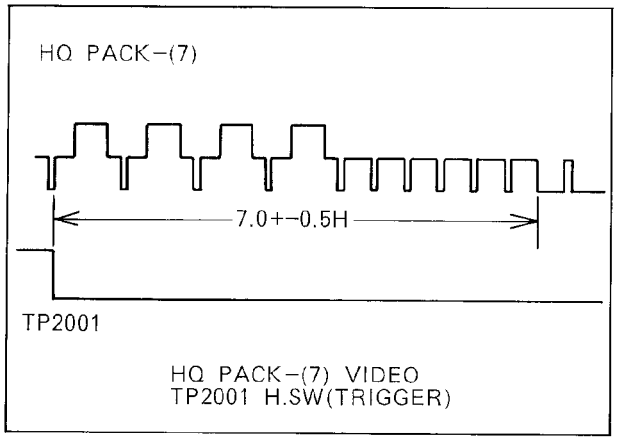


Fig. E3

2-3-4.SLOW FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2015	VR2013	SELF RECORDING (STILL MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	FREQUENCY COUNTER	453+-15Hz	

1. Record the Video Siganl in SP mode and playback the just recorded portion. Then place the unit in STILL mode.
2. Make a Test Mode as shown in Fig.E4. Connect a Cut Jumper Wire.
3. Connect a jumper wire between TP2026 and GND.
4. Adjust VR2013 so that reading of the Frequency Counter is 453+-15Hz.
5. After this adjustment, disconnect these jumper wires.

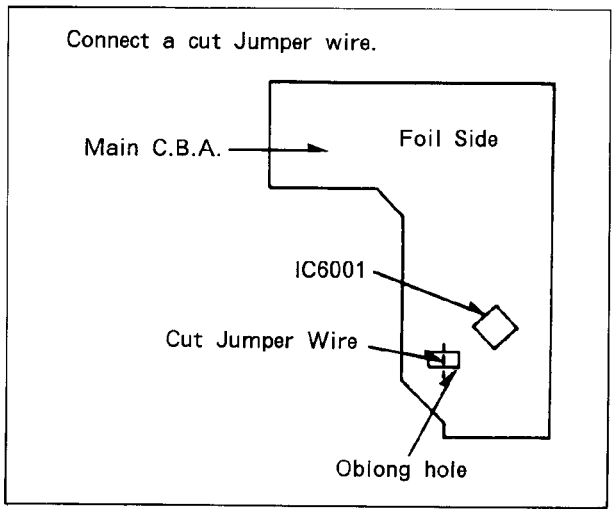


Fig. E4 Test Mode

2-3-5.VIDEO AUTO TRACKING GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
HQ PACK PIN-15	VR5003	PLAY	4MHz/ 200mVp-p (TO TP3001)
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE (VFJ8125H 3F)	SIGNAL GEN./ D.V.M.	3.1+-0.1Vp-p	

1. Set the output of Sinewave Signal Generator to 4MHz/200mVp-p and supply it to TP3001 through a Capacitor(0.1uF).
2. Connect the D.V.M.(Digital Volt Meter) to HQ PACK-(15).
3. Disconnect the connector P501 on HEAD AMP C.B.A..
4. Playback the Alignment Tape(VFJ8125H3F).
5. Adjust VR5003 so that reading of D.V.M. is 3.1+-0.1Vp-p.

2-3-6.ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2010(SP) VR2009(LP)	SELF RECORDING (STILL MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	TV MONITOR	NO V-DANCING	

1. Record the Video Signal in SP mode and playback the just recorded portion. Then place the unit in STILL mode.
2. Adjust VR2010 so that the V-Dancing does not appear on the Monitor Screen.
3. Record the Video Signal in LP mode and playback the just recorded portion. Then place the unit in STILL mode.
4. Adjust VR2009 so that the V-Dancing does not appear on the Monitor Screen.

2-3-7.SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2002 TP2026	VR2011(SP) VR2006(LP)	SELF RECORDING (SLOW MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	17.5+-2msec.(SP) 12+-2msec.(LP)	

1. Record the Video Signal in SP mode and playback the just recorded portion.Then place the unit in 1/5 Spped Slow Mode by Shuttle Ring as shown in Fig.E6.
2. Adjust VR2011 so that the phase difference becomes 17.5+-2msec. as shown in Fig.E5.

3. Record the Video Signal in LP mode and playback the just recorded portion.Then place the unit in 1/5 Spped Slow Mode by Shuttle Ring as shown in Fig.E6.
4. Adjust VR2006 so that the phase difference becomes 12+−2msec. as shown in Fig.E5.

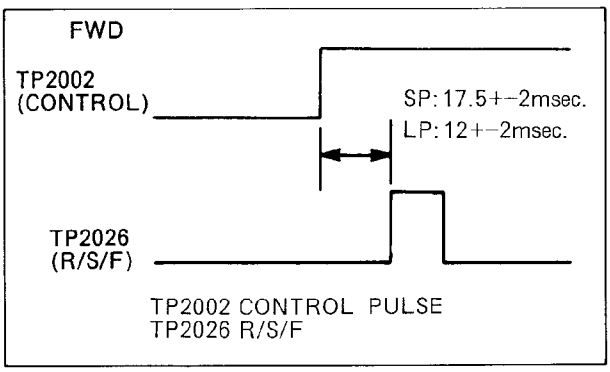
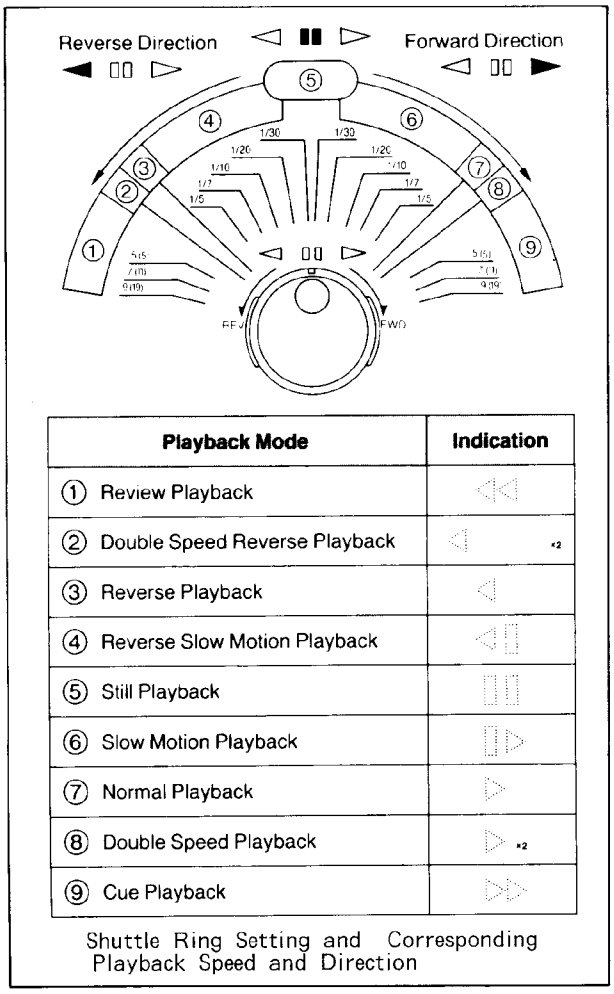


Fig. E5



Playback Mode	Indication
① Review Playback	
② Double Speed Reverse Playback	×2
③ Reverse Playback	
④ Reverse Slow Motion Playback	
⑤ Still Playback	
⑥ Slow Motion Playback	
⑦ Normal Playback	
⑧ Double Speed Playback	×2
⑨ Cue Playback	

Shuttle Ring Setting and Corresponding Playback Speed and Direction

Fig. E6

2-3-8.REVERSE SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2002 TP2026	VR2019(SP) VR2018(LP)	SELF RECORDING (REVERSE SLOW MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	14+−2msec.(SP) 7+−2msec.(LP)	

1. Record the Video Signal in SP mode and playback the just recorded portion. Then place the unit in 1/5 Spped Reverse Slow Mode by Shuttle Ring as shown in Fig.E6.
2. Adjust VR2019 so that the phase difference becomes 14+−2msec. as shown in Fig.E7.
3. Record the Video Signal in LP mode and playback the just recorded portion. Then place the unit in 1/5 Spped Reverse Slow Mode by Shuttle Ring as shown in Fig.E6.
4. Adjust VR2018 so that the phase difference becomes 7+−2msec. as shown in Fig.E7.

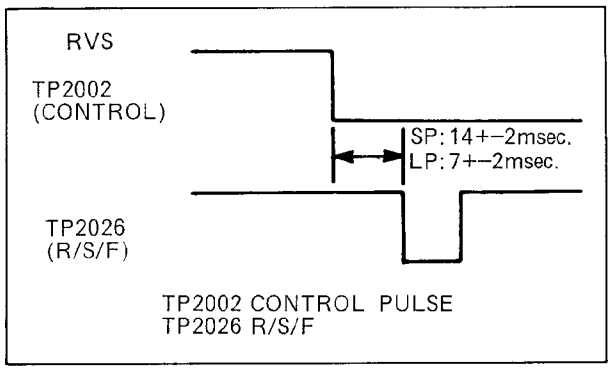


Fig. E7

LUMINANCE, CHROMINANCE & HEAD AMP Section

2-3-9.Y-NR GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3051	VR303	STOP	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	800+−20mVp-p (75ohm Terminated)	

1. Supply the Video Signal to S-VIDEO INPUT Socket.
2. Set the Input Signal Selector to S-VIDEO position.
3. Set the Tape Speed Button to LP mode.
4. Adjust VR303 so that the Video Level becomes 800+−20mVp-p.

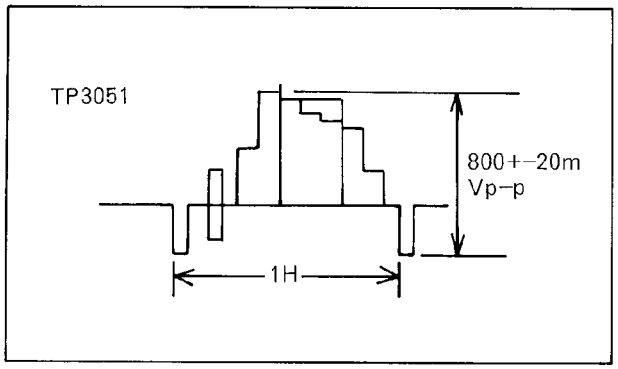


Fig. E8

NOTE:
This adjustment should be completed before the luminance and chrominance recording current adjustment.

2−3−10. CHROMINANCE & LUMINANCE RECORDING CURRENT ADJUSTMENT

*S−VHS CHROMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR502	RECORDING (SP MODE)	COLOUR BAR (S−VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S−VHS BLANK TAPE	OSCILLO− SCOPE	28+−2mVp−p	

1. Supply the Video Signal to S−VIDEO INPUT Socket.
2. Set the Input Signal Selector to S−VIDEO position.
3. Connect the oscilloscope to TP507(HOT) and TP508(GND).
4. Connect a jumper wire between Cathode of D3004 and TP1003(+5V Line).
5. Adjust VR502 so that the Chrominance Current Level becomes 28+−2mVp−p.

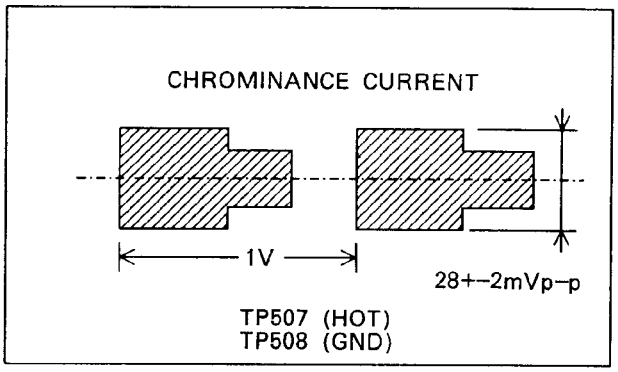


Fig. E9

*S−VHS LUMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR501	RECORDING (SP MODE)	COLOUR BAR (S−VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S−VHS BLANK TAPE	OSCILLO− SCOPE	120+−5mVp−p	

1. Supply the Video Signal to S−VIDEO INPUT Socket.
2. Set the Input Signal Selector to S−VIDEO position.
3. Connect the oscilloscope to TP507(HOT) and TP508(GND).
4. Adjust VR501 so that the Luminance Current Level becomes 120+−5mVp−p.

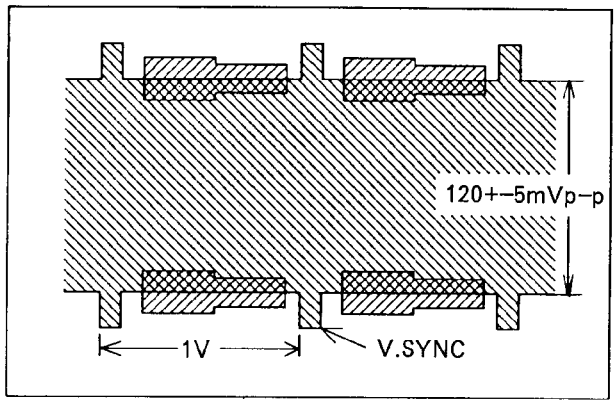


Fig. E10

*VHS LUMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR3001	RECORDING (SP MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO− SCOPE	110+−5mVp−p	

1. Set the S−VHS Selector to OFF position.
2. Connect the oscilloscope to TP507(HOT) and TP508(GND).
3. Adjust VR3001 so that the Luminance Current Level becomes 110+−5mVp−p.

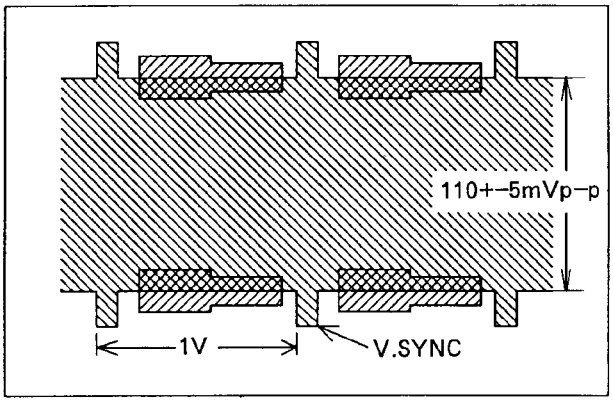


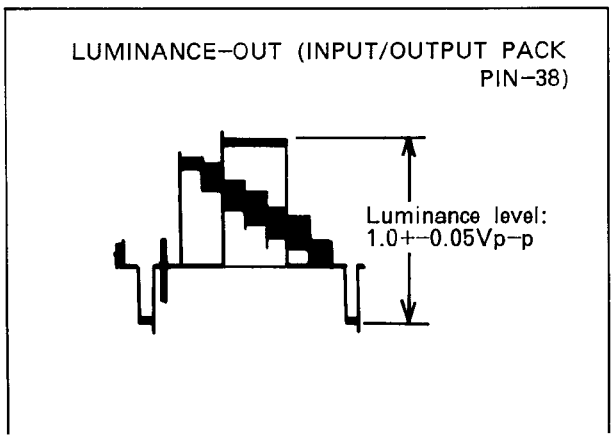
Fig. E11

NOTE:
This adjustment should be completed after S-VHS Luminance and Chrominance Recording Current Adjustment.

2-3-11.PLAYBACK VIDEO LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
INPUT/ OUTPUT PACK- 38(Y) 40(C)	VR302(Y) VR301(C)	SELF RECORDING (SP MODE)	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO- SCOPE	1.0+-0.05Vp-p(Y) 0.55+-0.05Vp-p(C)	

1. Supply the Video Signal to S-VIDEO INPUT Socket.
2. Set the Input Signal Selector to S-VIDEO position.
3. Connect the oscilloscope to INPUT/OUTPUT PACK-(38).
4. Playback the just recorded portion.
5. Adjust VR302 so that the Luminance Level becomes 1.0+-0.05Vp-p.
6. Connect the oscilloscope to INPUT/OUTPUT PACK-(40).
7. playback the just recorded portion.
8. Adjust VR801 sothat the Cyan Level becomes 0.55+-0.05Vp-p.



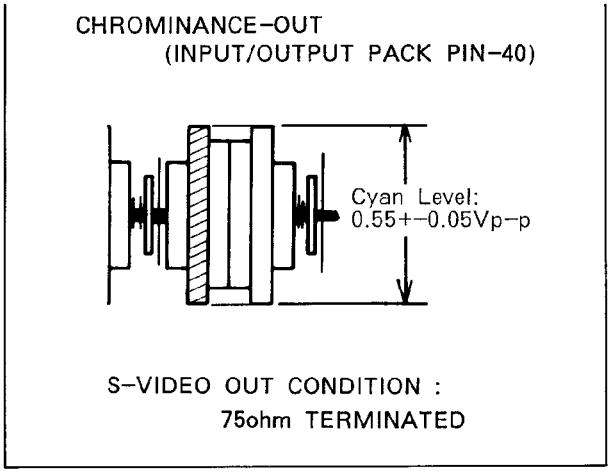


Fig. E12

2-3-12.S-VHS COS EQ ADJUSTMENT

TP	ADJ.	MODE	INPUT
INPUT/ OUTPUT PACK-(38)	VR5002	SELF RECORDING (SP MODE)	VIDEO SWEEP (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO- SCOPE	-4.5+-0.5dB (56 ~ 63%)	

1.Set the Sweep Generator Output as shown below.

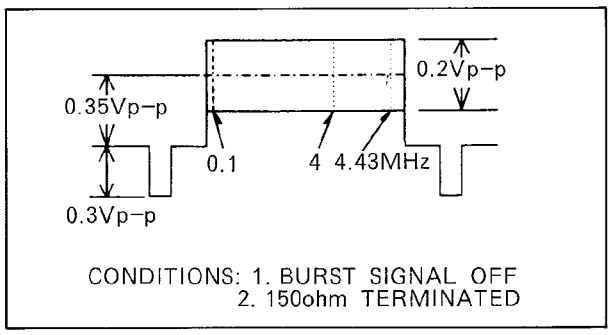


Fig. E13

2. Supply the Video Siganl to S-VIDEO INPUT Socket.
3. Set the Input Signal Selector to S-VIDEO position.
4. Playback the just recorded portion.
5. Adjust VR5002 so that the level at 4MHz becomes -4.5+-0.5dB(56~63%) comparing with the level at 0.1MHz as shown in Fig.E14.

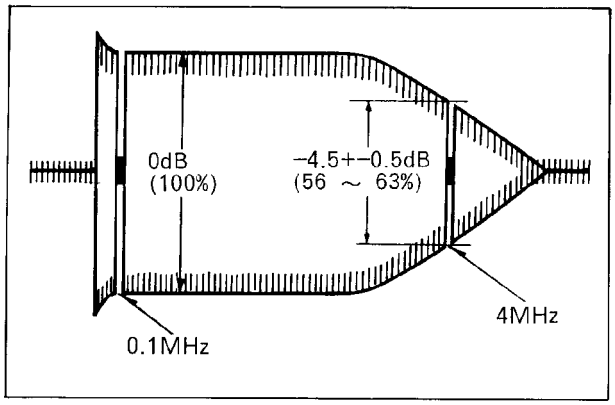


Fig. E14

2-3-13.VHS FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT (TP3002)	VR5004(SP) VR5005(LP)	SELF RECORDING	VIDEO SWEEP (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	VIDEO SWEEP/ OSCILLO-SCOPE	A=0+-1dB(90~110%) : SP A=0+-1dB(90~110%) : LP	

1. Set the Sweep Generator Output as shown in Fig.E15.

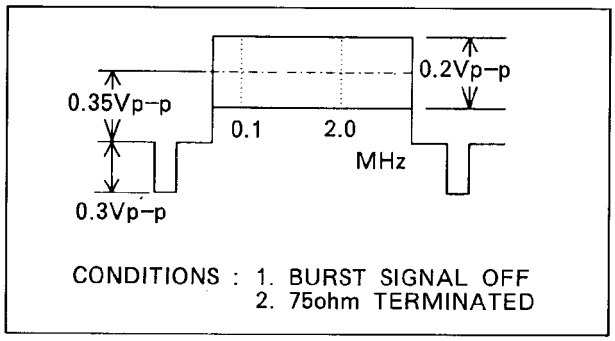


Fig. E15

2. Supply the Video Sweep to VIDEO INPUT Socket(AV2).
3. Playback the just recorded portion in SP mode.
4. Adjust VR5004(SP) so that the level at 2MHz(A) becomes within specification comparing with the level at 0.1MHz as shown in Fig.E16.
5. Set the Tape Speed Buttun to LP mode.
6. Playback the just recorded portion in LP mode.
7. Adjust VR5005(LP) so that the level at 2MHz(A) becomes within specification comparing with the level at 0.1MHz as shown in Fig.E16.

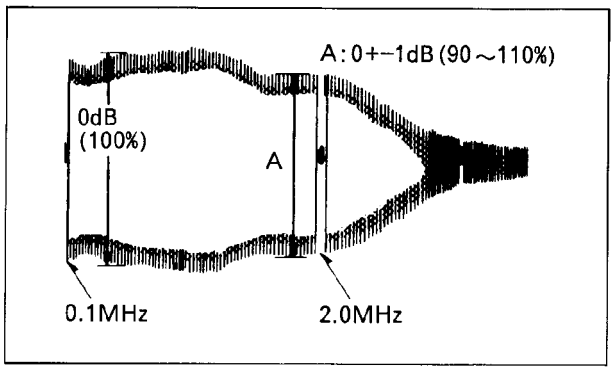


Fig. E16

2-3-14.SECAM KILLER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC851-(11)	T851	SELF RECORDING (SP MODE)	SECAM VIDEO SIGNAL (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	MAXIMUM AS POSSIBLE	

1. Adjust T851 so that the points"A" becomes maximum on the waveform.

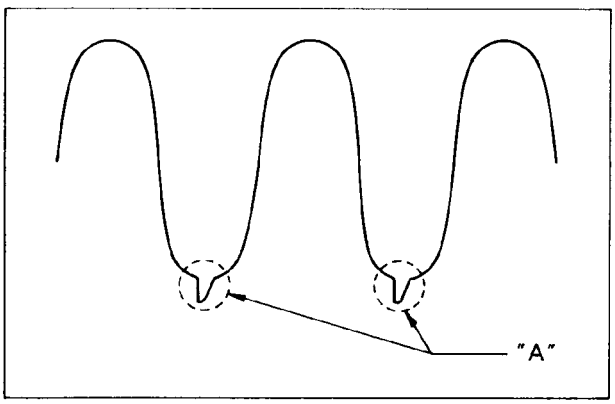


Fig. E17

2-3-15.PILOT BURST PHASE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC801-(15)	C833	STOP	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
	VECTOR-SCOPE	-95+-5degrees	

1. Supply the Video Signal to S-VIDEO INPUT Socket.
2. Set the Input Signal Selector to S-VIDEO position.
3. Connect a jumper wire between IC801-(5) and GND.
4. Connect a jumper wire between IC801-(37) and TP1003(+5V Line).
5. Connect the vectorscope to IC801-(15) and its external terminal for trigger to Line Output of VTR.
6. Adjust C833 so that the Pilot Burst Signal is placed in -95+-5degrees against the U-Axis an vectorscope.
7. After this adjustment, disconnect these jumper wires.

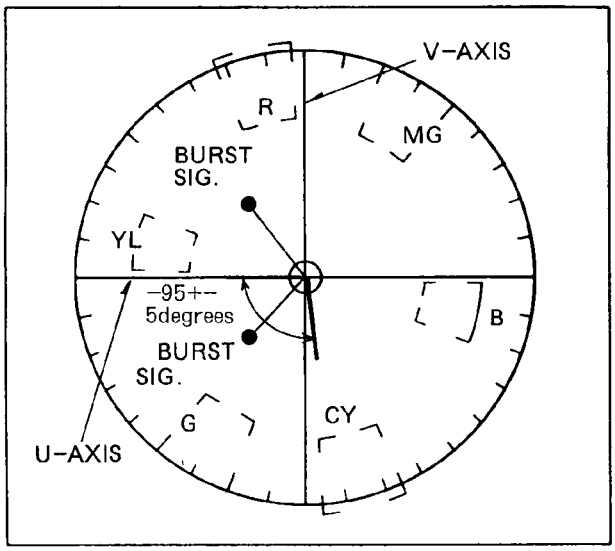


Fig. E18

2-3-16.S-VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC303-(2)	VR301	SELF RECORDING (SP MODE)	COLOUR BAR (S-VIDEO IN)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	400+-10mVp-p	

1. Supply the Video Signal to S-VIDEO INPUT Socket.
2. Set the Input Signal Selector to S-VIDEO position.
3. Connect a Capacitor(3900pF) between IC303-(2) and GND.
4. Playback the just recorded portion.
5. Adjust VR301 so that the Luminance Level becomes 400+-10mVp-p.
6. After this adjustment, disconnect the Capacitor.

2-3-17. LUMINANCE NOISE REDUCTION BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3301-(21)	VR3301	RECORDING (LP MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMIZED	

1. Connect a Capacitor(1000pF) between IC3301-(21) and GND.
2. Record the Video Siganl in LP mode.
3. Adjust VR3301 so that the waveform is minimized.
4. After this adjustment, disconnect the Capacitor.

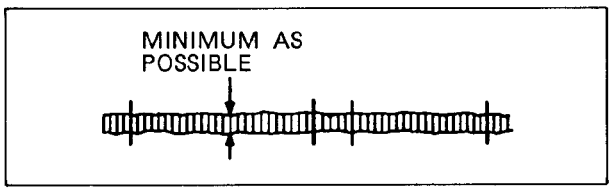


Fig. E19

2-3-18. LUMINANCE NOISE REDUCTION GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
P3301-(1), (4)	VR3302	STOP	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	A LEVEL = B LEVEL	

1. Set the S-VHS Selector to OFF position.
2. Set the Tape Speed Button to LP mode.
3. Connect the oscilloscope to P3301-(1)(CH-A) and P3301-(4)(CH-B).
4. Adjust VR3302 so that the Luminance Level between "A" and "B" are the same level.

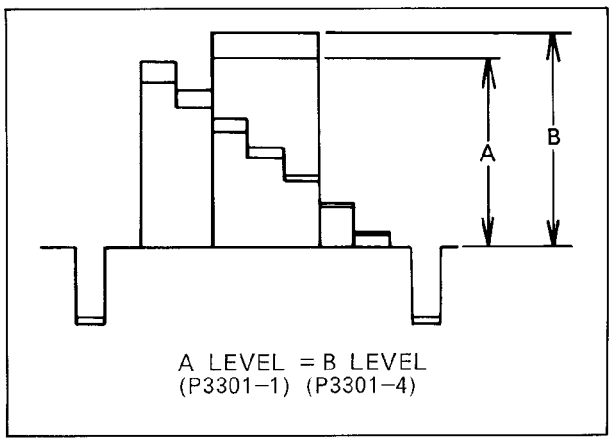


Fig. E20

2-3-19. CHROMINANCE RECURSIVE FILTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3301-(7)	VR8301 VR8302	SELF RECORDING (SP MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMIZED	

1. Playback the just recorded portion.
2. Adjust VR8301 and VR8302 mutually so that the Waveform is minimized.

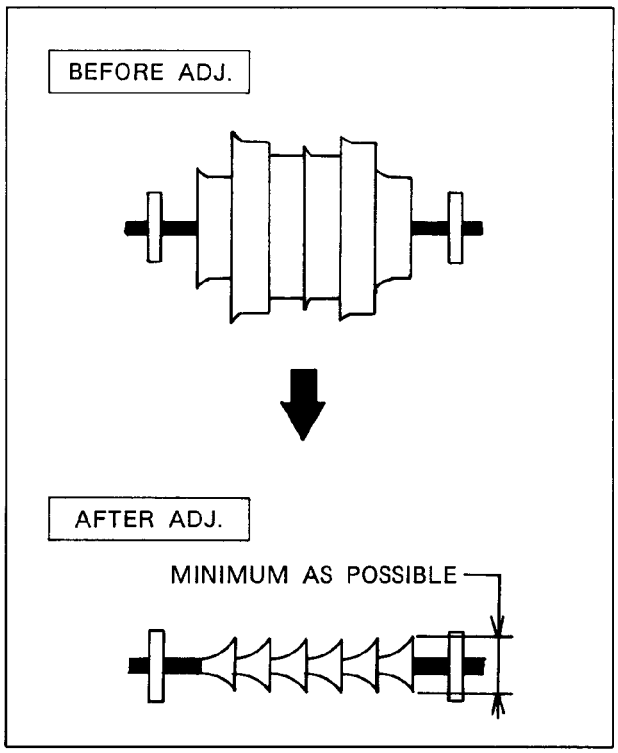


Fig. E21

NOTE:
This adjustment should be completed after All Adjustment of Recording mode.

2-3-20.SUPER LIMITER ADJUSTMENT

TP	ADJ.	MODE	INPUT
HQ PACK -(20)	VR5001	SELF RECORDING	SINEWAVE (7MHz/ 200mVp-p)
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	SIGNAL GENE./ OSCILLO-SCOPE	150+-10mVp-p	

1. Set the Signal Generator Output to 7MHz/200mVp-p and the supply this sinewave to TP5001.
2. Connect a Resistor(100ohm) between Q5005-(B) and TP1003(+5V Line).
3. Playback the just recorded portion in S-VHS mode.
4. Adjust VR5001 so that the waveform level becomes 150+-10mVp-p.
5. After this adjustment, disconnect the Resistor.

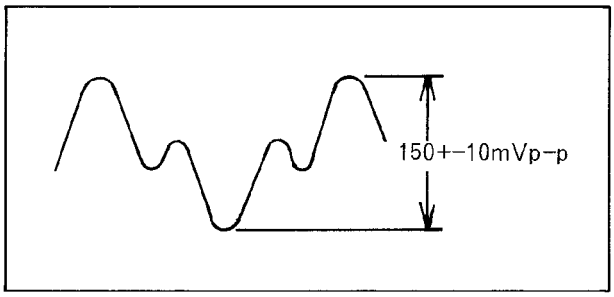


Fig. E22

2-3-21.1H DELAY LUMINANCE LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
P3503-(5)	VR3551	SELF RECORDING (SP MODE)	COLOUR BAR (LINE IN)
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	48+-2.5%	

1. Playback the just recorded portion.
2. Measure the Luminance Level at P3502-(1).
3. Adjust VR3551 so that the Luminance Level at P3503-(5) becomes within 48+-2.5% comparing with the Luminance Level at P3502-(1).

TIMER Section

2-3-22.TIMER CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7501	C7501		
TAPE	**M. EQ.**	**SPEC.**	
	UNIVERSAL COUNTER	7812.5+-0.015usec.	

NOTE:
(1) Do not connect the AC power plug.
(2) Make a short circuit at C1003 to discharge.

1. Set the voltage of the DC power supply for 5.0+-0.1V and supply it to P7501-(3),P7501-(4) (+) and GND(-).
2. Connect a jumper wire between P7501-(6) and GND.
3. Connect the Universal Counter to TP7501.
4. Adjust C7501 so that the Timer Clock Frequency becomes 7812.5+-0.015usec.

NORMAL AUDIO Section

2-3-23.AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4002	RECORDING (SP MODE)	
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	V.T.V.M.	2.9+-0.1mVrms	

NOTE:
Make a short circuit at terminal of the Audio Input.

2-3-24.AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT	VR4001	SELF RECORDING (SP MODE)	1KHz/-10dB AUDIO SIGNAL, VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	SIGNAL GENE./ V.T.V.M.	E-E LEVEL = -8+-2dB (300mVrms~500mVrms) PLAYBACK LEVEL = E-E LEVEL+-0.5dB (+-20mVrms)	

1. Set the Audio Output Selector to NORMAL position by Infra-red Remote Controller.(Both the Left and Right Indicators are not lit.)
2. Playback the just recorded portion.
3. Adjust VR4001 so that the level of the playback waveform becomes E-E Level+-0.5dB(+-20mVrms).

NOTE:
(1) Before this adjustment, "Tape Interchangeability Adjustment" and "Audio Bias Current Adjustment" must be completed.
(2) Video signal must be connected to video input.

Hi-Fi AUDIO Section

2-3-25.LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
LEVEL METER	VR4004	STOP	1KHz/-10dB AUDIO SIGNAL, VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GEN.	0dB INDICATOR JUST LIGHTS UP	

1. Set the Audio Output Selector to STEREO position by Infra-red Remote Controller.(Both the Left and Right Indicators are lit.)
2. Set the Audio Recording Level Control Selector to MANUAL position.
3. Adjust the output level with the Hi-Fi Rec Level Controls so that the Audio Outputs are 400mVrms at both Output Jacks (L) and (R).
4. Adjust VR4004 so that the 0dB indicator just lights up to the Level Meter as shown below.

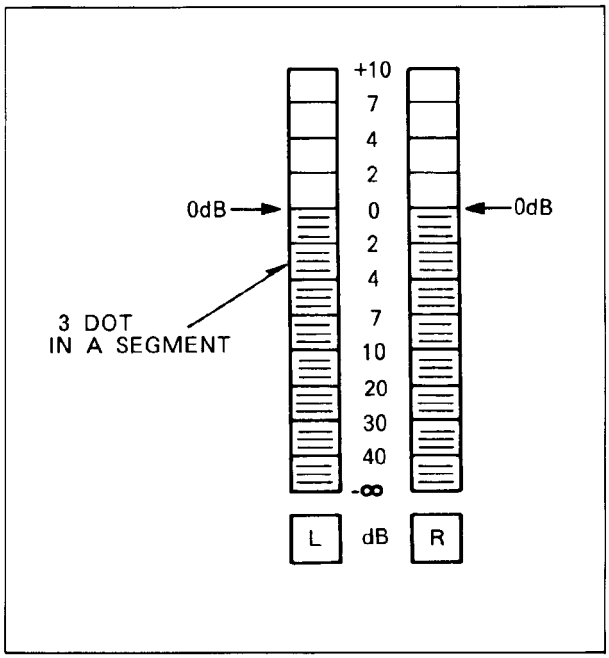


Fig. E23

2-3-26.Hi-Fi AUDIO RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4507 (HOT) SHIELD CASE(GND)	VR4503	RECORDING (SP MODE)	
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	OSCILLO-SCOPE	480+-10mVp-p	

1. Set the Audio Selector to STEREO position. (Both the Left and Right Indicators are lit.)
2. Connect the oscilloscope to TP4507(HOT) and Shield Case(GND).
3. Adjust VR4503 so that the Audio Recording Current becomes 480+-10mVp-p.

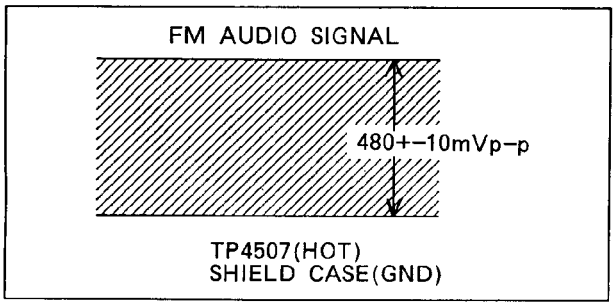


Fig. E24

NOTE:
Prior to Hi-Fi Audio Muting Adjustment, this adjustment must be completed.

2-3-27.AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4511 TP2001	VR4510	PLAY	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE (VFJ8 125H3F)	OSCILLO-SCOPE	$T = \frac{T2-(T2-T1)msec.}{2}$	

1. Playback the Alignment Tape(VFJ8125H3F).
2. Connect the oscilloscope to TP4511 and TP2001.
3. Adjust VR4510 while listening to the stereo playback sound.
4. Confirm the "T2" time when the abnormal sound just occurs doring turning clockwise on VR4510.
5. Confirm the "T1" time when the abnormal sound just occurs during turning counter clockwise on VR4510.
6. Adjust VR4510 so that the falling edge "T" of Audio H.SW pulse becomes the centre portion of the both "T2" and "T1".

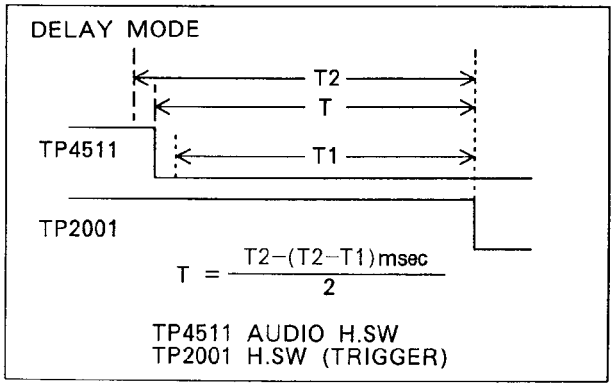


Fig. E25

2-3-28.Hi-Fi AUDIO CARRIER FREQUENCY ADJUSTMENT

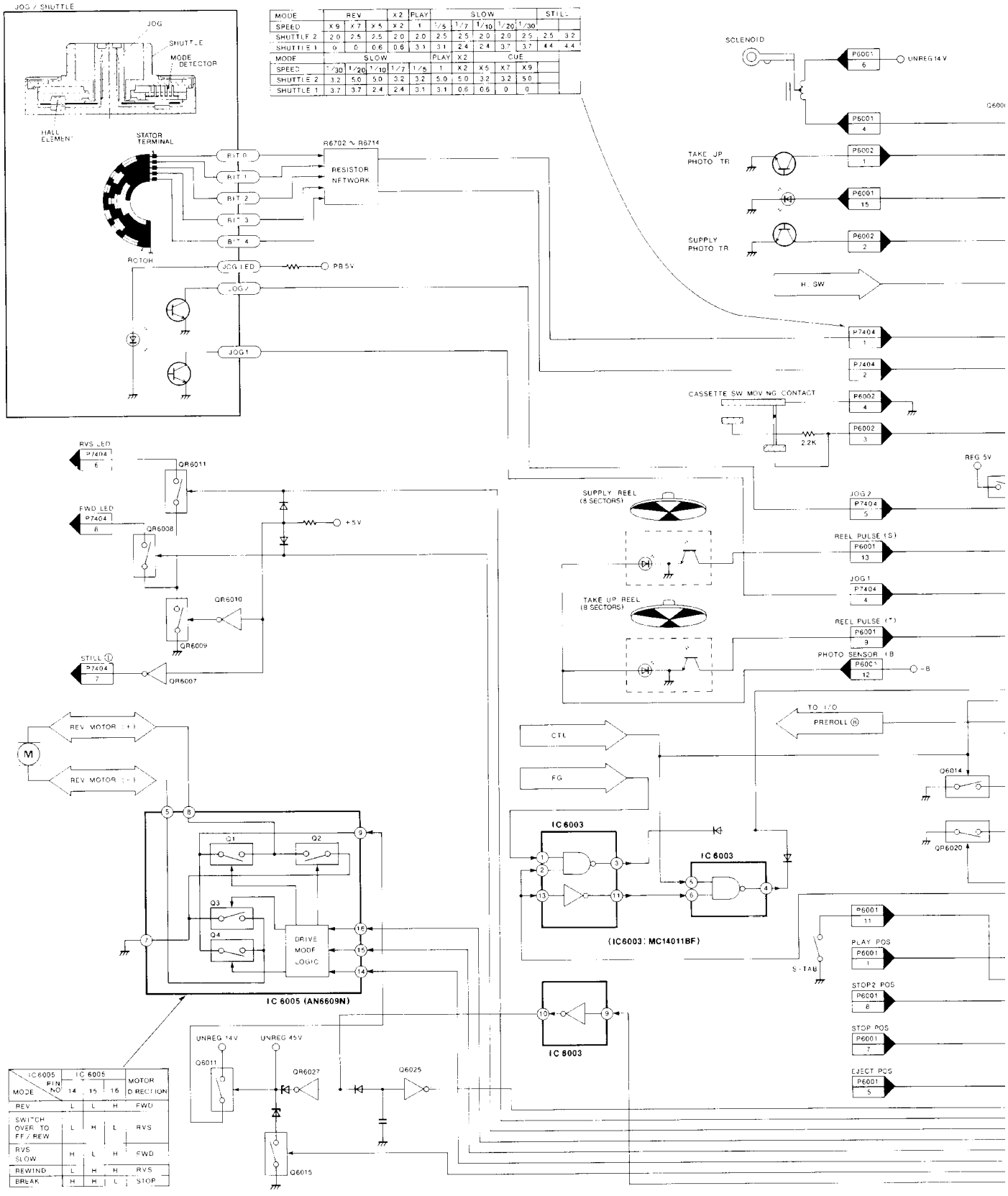
TP	ADJ.	MODE	INPUT
BETWEEN C4516 AND R4513 (L) BETWEEN C4566 AND R4563 (R)	VR4501(L) VR4509(R)	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUE NCY COUNTER	1400+-3KHz(L) 1800+-3KHz(R)	

2-3-29.Hi-Fi AUDIO DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN VR4502 AND R4561 (L) BETWEEN VR4507 AND R4511 (R)	VR4502(L) VR4507(R)	RECORDING	1KHz/-10dB (316mVp-p) AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
VHS BLANK TAPE	SIGNAL GENE./ D.V.M.	360mVp-p	

1. Set the Audio Output Selector to STEREO position by Infra-red Remote Controller. (Both the Left and Right Indicators are lit.)
2. Set the Audio Recording Level Control Selector to MANUAL position.
3. Adjust the output level with the Hi-Fi Rec Level Controls so that the Audio Outputs are 400mVp-p at both Outputs Jack (L) and (R).
4. Adjust VR4502 to 360mVp-p at between VR4502 and R4561 on Hi-Fi Audio C.B.A. for L-Channel.
5. Adjust VR4507 to 360mVp-p at between VR4507 and R4511 on Hi-Fi Audio C.B.A. for R-Channnel.

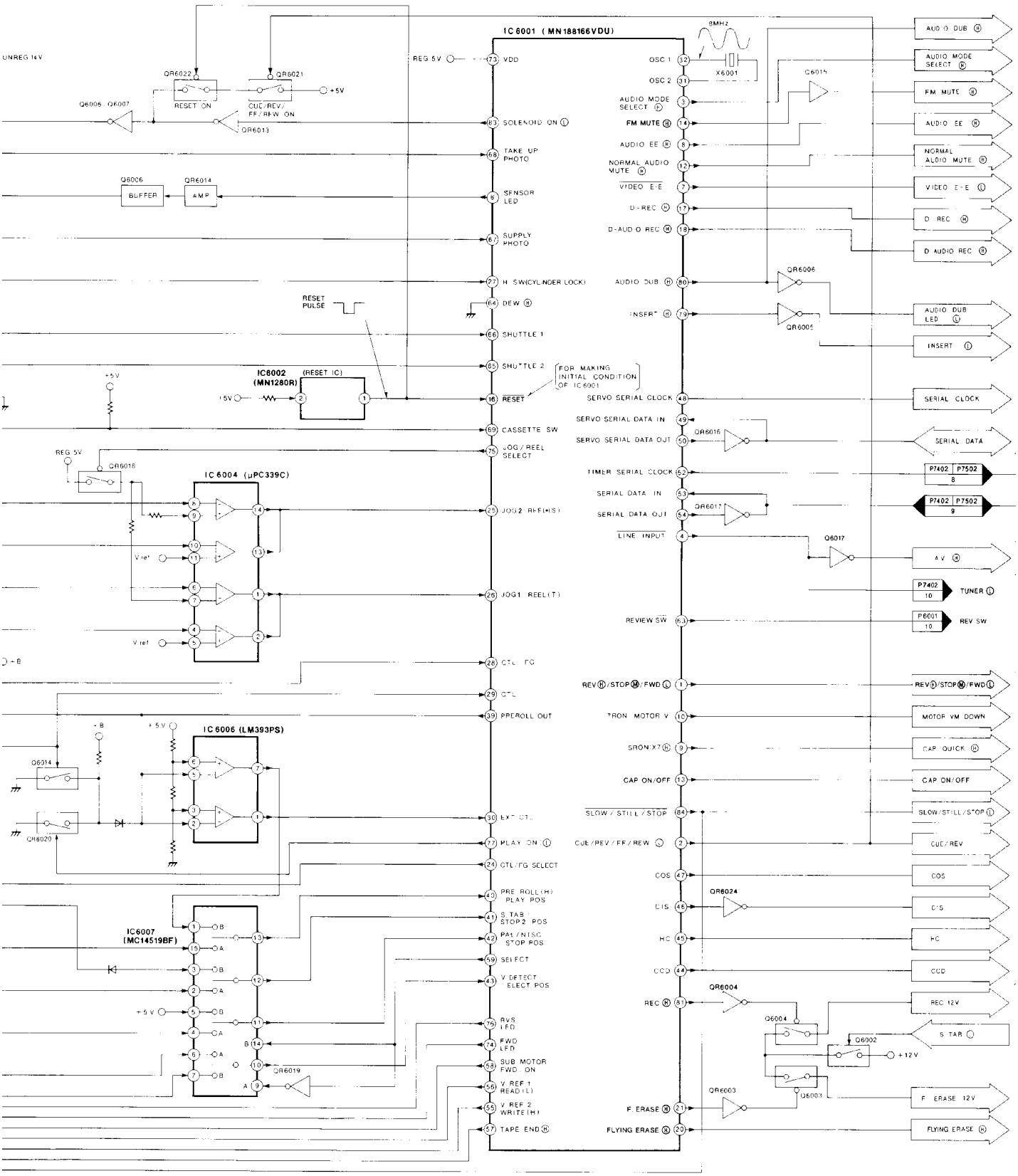
SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. SYSTEM CONTROL BLOCK DIAGRAM

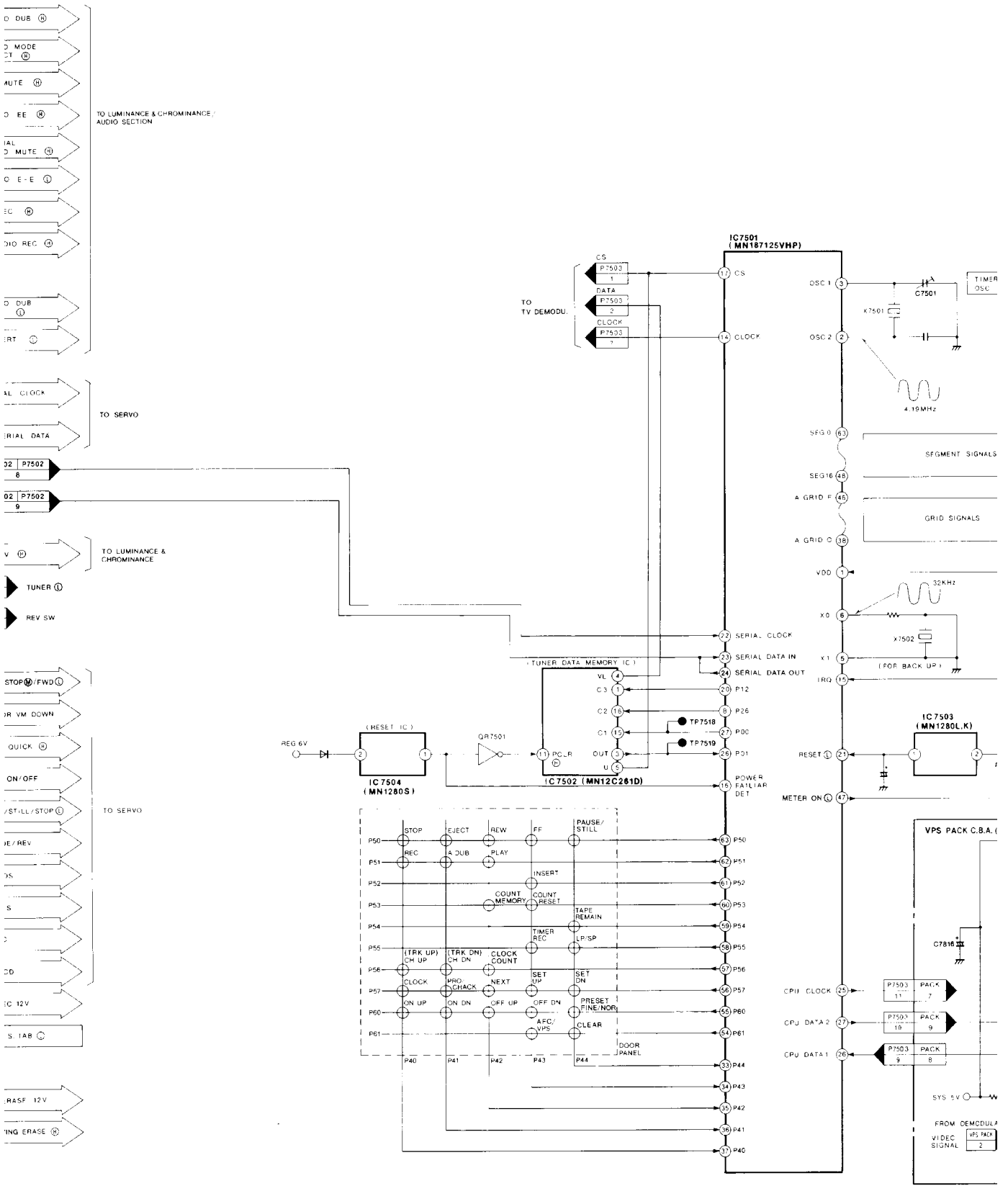


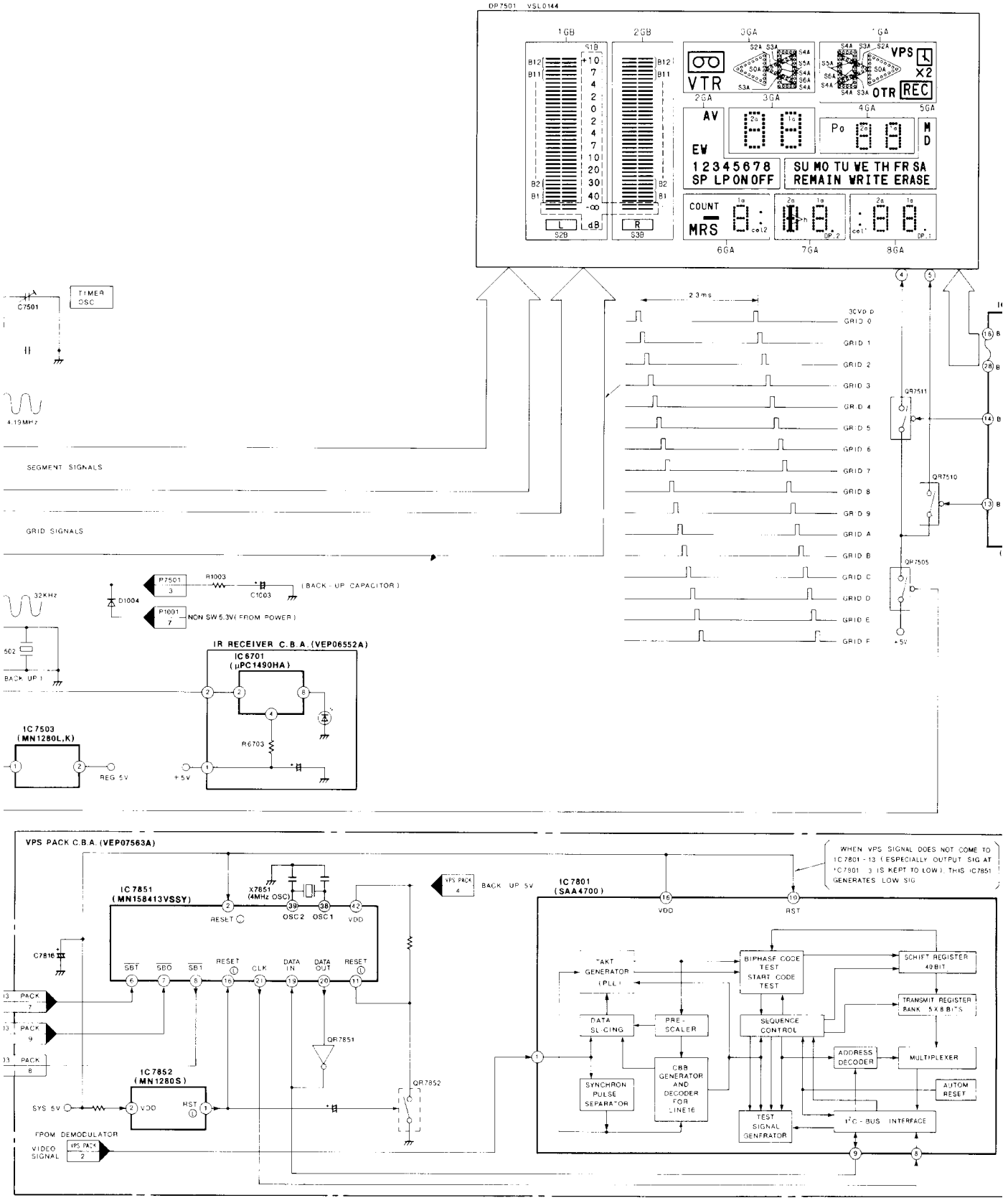
MODE	REV			X2	PLAY	SLOW					STILL	
SPEED	X9	X7	X5	X2	1	1/5	1/7	1/10	1/20	1/30		
SHUTTLE 2	2.0	2.5	2.5	2.0	2.0	2.5	2.5	2.0	2.0	2.5	2.5	3.2
SHUTTLE 1	0	0	0.6	0.6	3.1	3.1	2.4	2.4	3.7	3.7	4.4	4.4

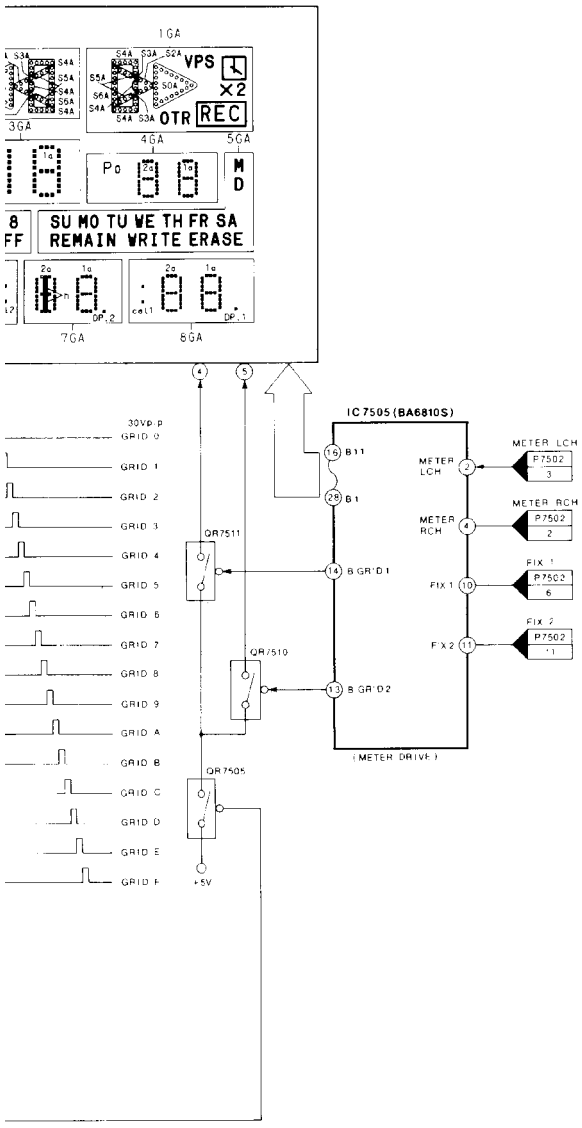
MODE	SLOW					PLAY	X2	CUE			
SPEED	1/30	1/20	1/10	1/7	1/5	1	X2	X5	X7	X9	
SHUTTLE 2	3.2	5.0	5.0	3.2	3.2	5.0	5.0	3.2	3.2	5.0	
SHUTTLE 1	3.7	3.7	2.4	2.4	3.1	3.1	0.6	0.6	0	0	

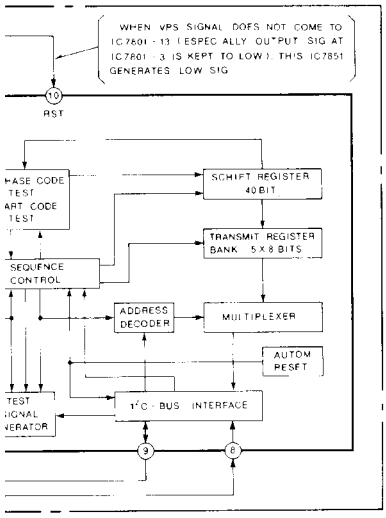
MODE \ IC6005 PIN NO	14	15	16	MOTOR DIRECTION
REV	L	L	H	FWD
SWITCH OVER TO FF / REW	L	H	L	RVS
RVS SLOW	H	L	H	FWD
REWIND	L	H	H	RVS
BREAK	H	H	L	STOP

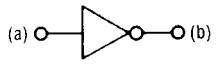
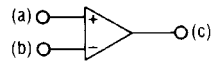
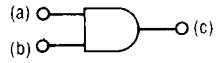
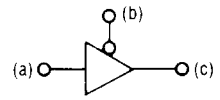
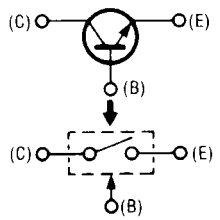
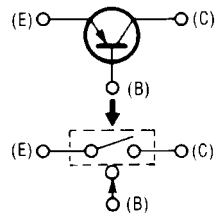
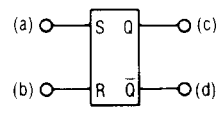

IC 6001 (MN188166VDU)
UNREG 14 V
REG 5 V
VDD
8MHz
X6001
OSC 1
OSC 2
QR6022
QR6021
RESET ON
CUE/REV/FF/REW ON
+5V
Q6006 · Q6007
QR6013
SOLENOID ON
TAKE UP PHOTO
Q6006
BUFFER
QR6014
AMP
SENSOR LED
SUPPLY PHOTO
H SW(CYLINDER LOCK)
RESET PULSE
DEW
SHUTTLE 1
SHUTTLE 2
IC6002 (MN1280R) (RESET IC)
FOR MAKING INITIAL CONDITION OF IC6001
RESET
CASSETTE SW
JOG / REEL SELECT
IC 6004 (μPC339C)
JOG2 REEL(S)
JOG1 REEL(T)
CTL FG
CTL
PREROLL OUT
IC 6005 (LM393PS)
Q6014
QR6020
EXT CTL
PLAY ON
CTL/FG SELECT
PRE ROLL(H) PLAY POS
S.TAB STOP2 POS
PAL/NTSC STOP POS
SELECT
V DETECT SELECT POS
IC6007 (MC14519BF)
RVS LED
FWD LED
SUB MOTOR FWD ON
QR6019
V REF 1 READ(L)
V REF 2 WRITE(H)
TAPE END
AUDIO MODE SELECT
FM MUTE
AUDIO EE
NORMAL AUDIO MUTE
VIDEO E-E
D-REC
D-AUDIO REC
AUDIO DUB
INSERT
SERVO SERIAL CLOCK
SERVO SERIAL DATA IN
SERVO SERIAL DATA OUT
QR6016
TIMER SERIAL CLOCK
SERIAL DATA IN
SERIAL DATA OUT
QR6017
LINE INPUT
REVIEW SW
REV/STOP/FWD
TRON MOTOR V
SRON/X7
CAP ON/OFF
SLOW/STILL/STOP
CUE/REV/FF/REW
COS
CTS
HC
CCD
REC
F. ERASE
FLYING ERASE
Q6015
QR6006
QR6005
Q6017
QR6024
QR6004
Q6004
Q6002
Q6001
QR6003
+12V
AUDIO DUB
AUDIO MODE SELECT
FM MUTE
AUDIO EE
NORMAL AUDIO MUTE
VIDEO E-E
D REC
D AUDIO REC
AUDIO DUB LED
INSERT
SERIAL CLOCK
SERIAL DATA
P7402 P7502 8
P7402 P7502 9
A.V
P7402 10 TUNER
P6001 10 REV SW
REV/STOP/FWD
MOTOR VM DOWN
CAP QUICK
CAP ON/OFF
SLOW/STILL/STOP
CUE/REV
COS
CTS
HC
CCD
REC 12V
S.TAB
F. ERASE 12V
FLYING ERASE

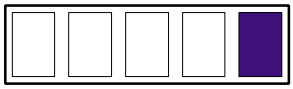

TO LUMINANCE & CHROMINANCE / AUDIO SECTION
TO SERVO
TO LUMINANCE & CHROMINANCE
TUNER
REV SW
TO SERVO
IC7501 (MN187125VHP)
TO TV DEMODU.
CS
DATA
CLOCK
OSC 1
OSC 2
C7501
X7501
4.19MHz
SEG 0
SEGMENT SIGNALS
SEG16
A GRID F
GRID SIGNALS
A GRID C
VDD
32KHz
X0
X7502
X1
(FOR BACK UP)
IRQ
SERIAL CLOCK
SERIAL DATA IN
SERIAL DATA OUT
(TUNER DATA MEMORY IC)
VL
C3
C2
C1
P12
P26
P00
P01
TP7518
TP7519
REG 6V
(RESET IC)
IC7504 (MN1280S)
QR7501
IC7502 (MN12C261D)
POWER FAILIAR DET
IC7503 (MN1280L,K)
RESET
METER ON
STOP
EJECT
REW
FF
PAUSE/STILL
REC
A DUB
PLAY
INSERT
COUNT MEMORY
COUNT RESET
TAPE REMAIN
TIMER REC
LP/SP
(TRK UP) CH UP
(TRK DN) CH DN
CLOCK COUNT
SET UP
SET ON
CLOCK
PRO. CHACK
NEXT
ON UP
ON DN
OFF UP
OFF DN
PRESET FINE/NOR
AFC/VPS
CLEAR
DOOR PANEL
P50
P51
P52
P53
P54
P55
P56
P57
P60
P61
P40
P41
P42
P43
P44
VPS PACK C.B.A.
C7816
CPU CLOCK
CPU DATA 2
CPU DATA 1
SYS 5V
FROM DEMODULA
VIDEO SIGNAL


DP7501 VSL0144
VTR
VPS
X2
OTR
REC
AV
EW
12345678
SP LPONOFF
SU MO TU WE TH FR SA
REMAIN WRITE ERASE
COUNT
MRS
TIMER OSC
C7501
4.19MHz
SEGMENT SIGNALS
GRID SIGNALS
2.3ms
GRID 0
GRID 1
GRID 2
GRID 3
GRID 4
GRID 5
GRID 6
GRID 7
GRID 8
GRID 9
GRID A
GRID B
GRID C
GRID D
GRID E
GRID F
QR7511
QR7510
QR7505
32KHz
D1004
R1003
C1003
(BACK-UP CAPACITOR)
NON SW 5.3V (FROM POWER)
IR RECEIVER C.B.A. (VEP06552A)
IC 6701
(μPC1490HA)
R6703
IC 7503
(MN1280L,K)
REG 5V
+5V
VPS PACK C.B.A. (VEP07563A)
IC 7851
(MN158413VSSY)
X7851
(4MHz OSC)
RESET
OSC2
OSC1
VDD
C7816
QR7851
IC 7852
(MN1280S)
SYS 5V
RST
QR7852
FROM DEMODULATOR
VIDEO SIGNAL
BACK UP 5V
IC 7801
(SAA4700)
WHEN VPS SIGNAL DOES NOT COME TO IC7801-13 (ESPECIALLY OUTPUT SIG AT IC7801-3 IS KEPT TO LOW), THIS IC7851 GENERATES LOW SIG
AKT GENERATOR (PLL)
BIPHASE CODE TEST START CODE TEST
SCHIFT REGISTER 40BIT
TRANSMIT REGISTER BANK 5X8BITS
DATA SLICING
PRE-SCALER
SEQUENCE CONTROL
ADDRESS DECODER
MULTIPLEXER
SYNCHRON PULSE SEPARATOR
CRB GENERATOR AND DECODER FOR LINE16
AUTOM RESET
TEST SIGNAL GENERATOR
I²C-BUS INTERFACE

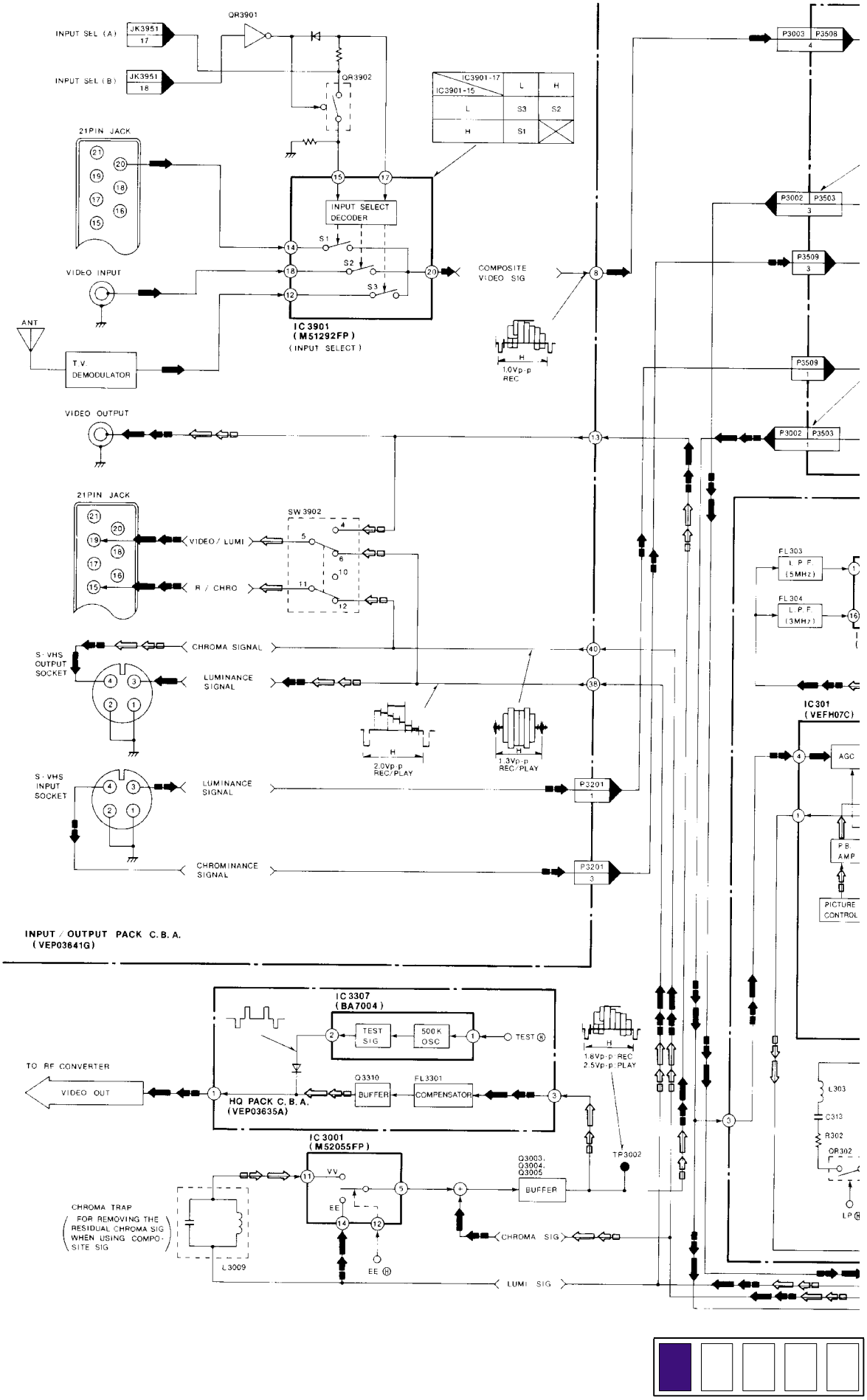



WHEN VPS SIGNAL DOES NOT COME TO IC7601-13 (ESPECIALLY OUTPUT SIG AT IC7601-3 IS KEPT TO LOW), THIS IC7851 GENERATES LOW SIG
RST
SHIFT REGISTER 40BIT
TRANSMIT REGISTER BANK 5X8 BITS
SEQUENCE CONTROL
ADDRESS DECODER
MULTIPLEXER
AUTOM RESET
I²C-BUS INTERFACE

SYMBOL	TRUTH VALUE TABLE
INVERTER 	IN (a) H L OUT (b) L H
COMPARTOR 	IN (a)/(b) (a)>(b) (a)<(b) OUT (c) H L
AND CIRCUIT 	IN (a) L L H H (b) L H L H OUT (c) L L L H
OR CIRCUIT 	IN (a) L L H H (b) L H L H OUT (c) L H H H
THREE STATES BUFFER 	IN (a) H L H or L (b) L L H OUT (c) H L ※ ※ High Impedance
TR. SW (NPN TYPE) 	BASE H L TR. SW ON OFF
TR. SW (PNP TYPE) 	BASE H L TR. SW OFF ON
R-S TYPE FLIP-FLOP 	IN (a) L L ⎍ (b) L ⎍ L OUT (c) ※ L H (d) ◆ H L ※ Initial condition is maintained. ◆ Initial condition is reverced.



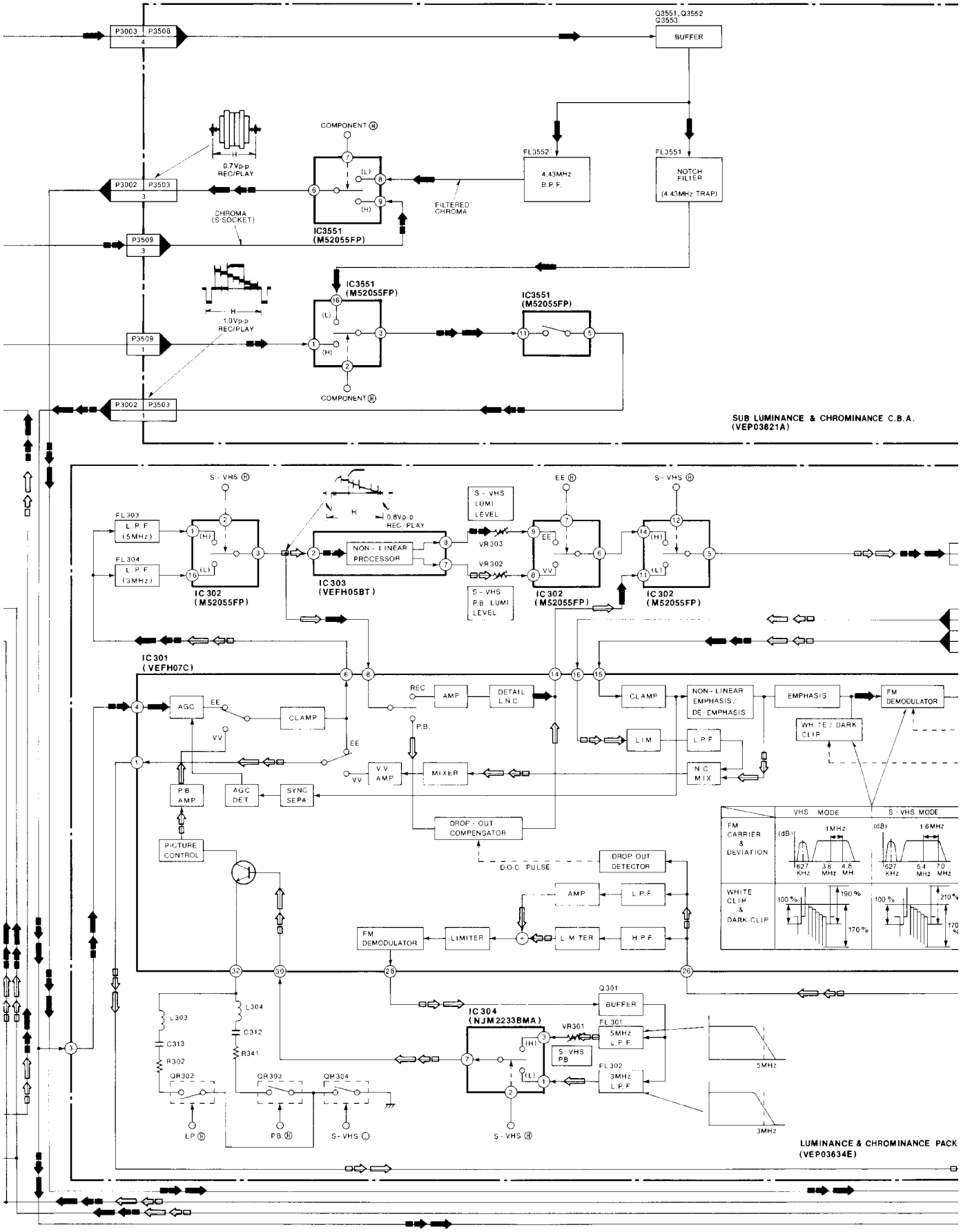
3-2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM



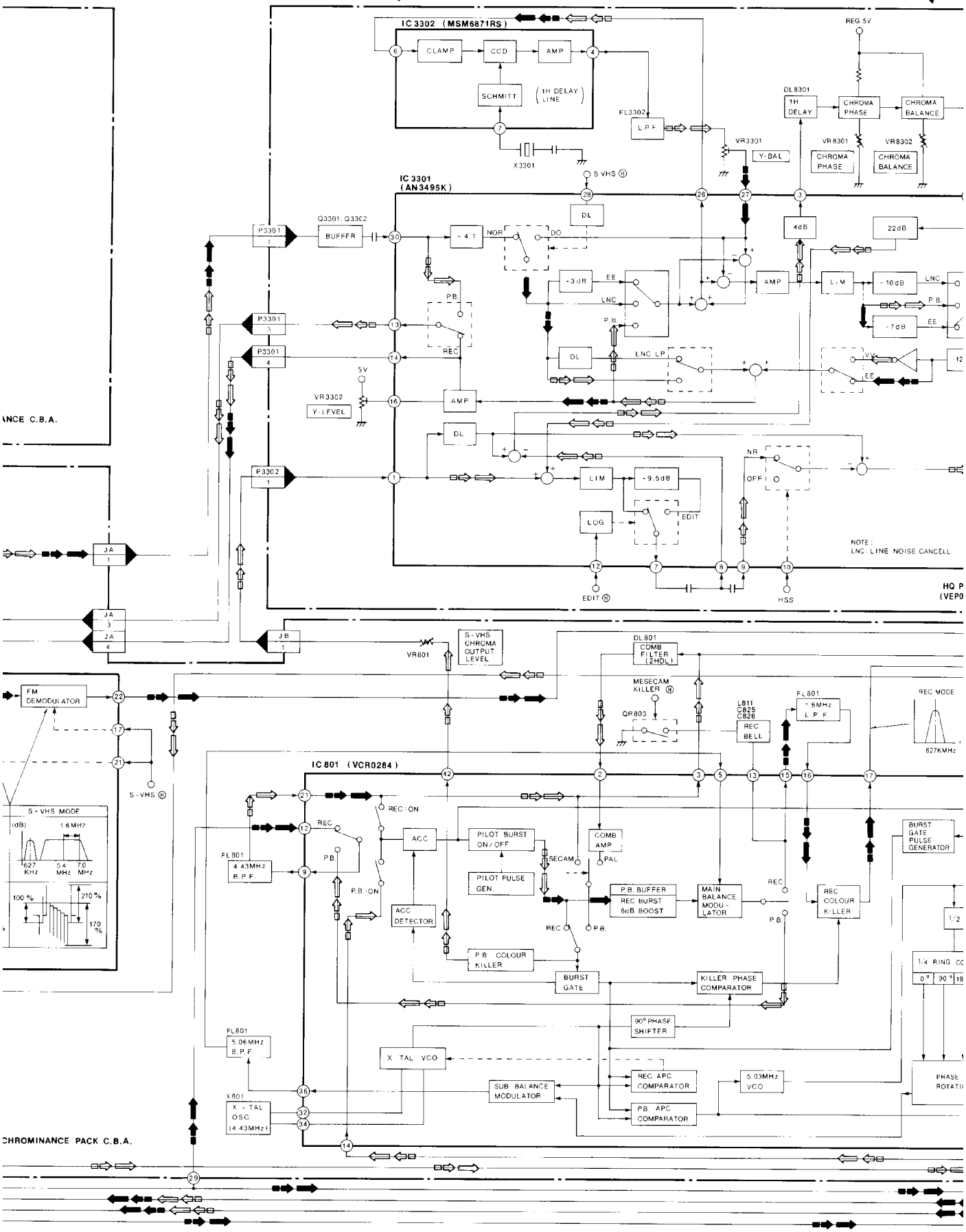
GRAM

MAIN SIGNAL PATH IN REC MODE (VHS)

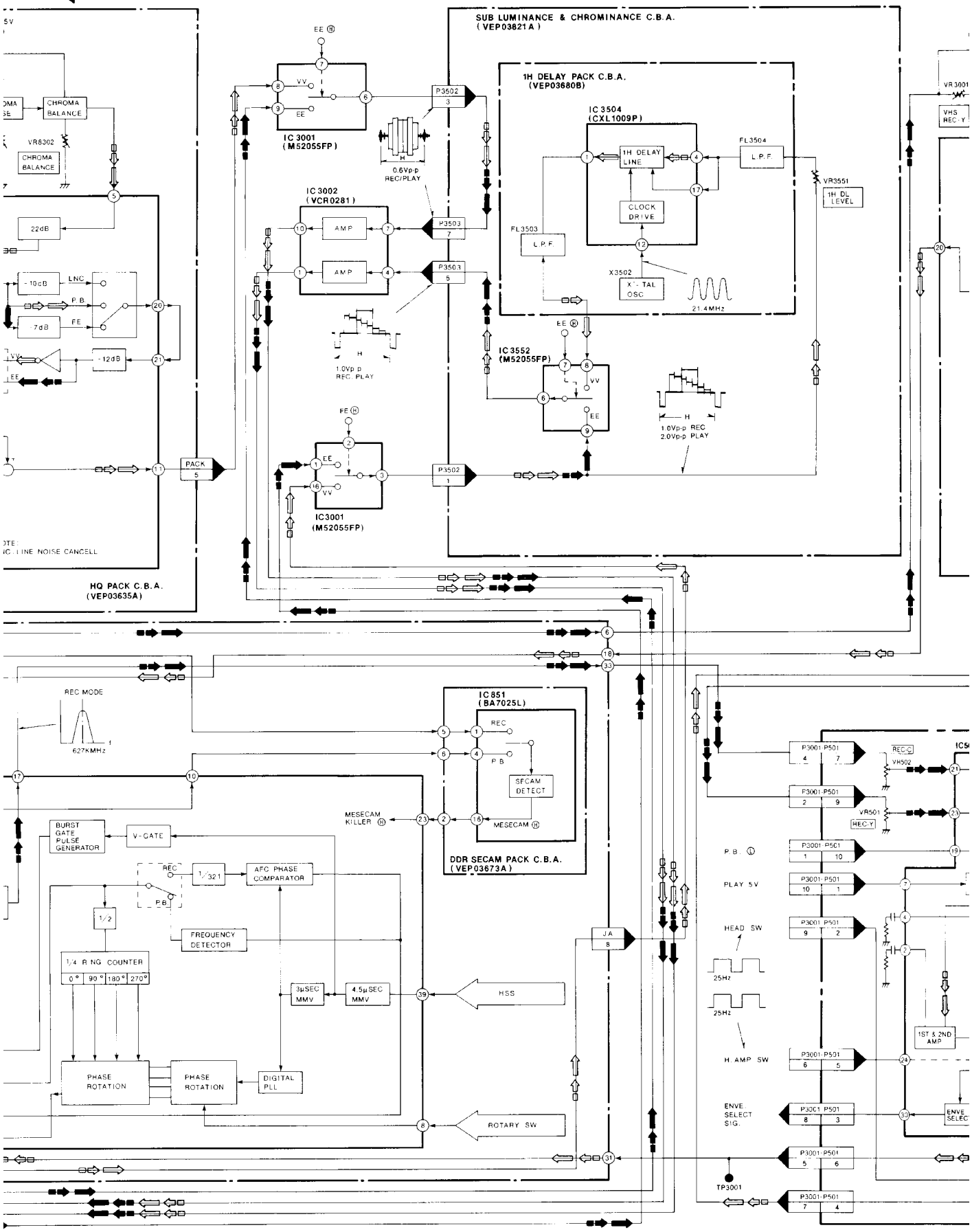
MAIN SIGNAL PATH IN

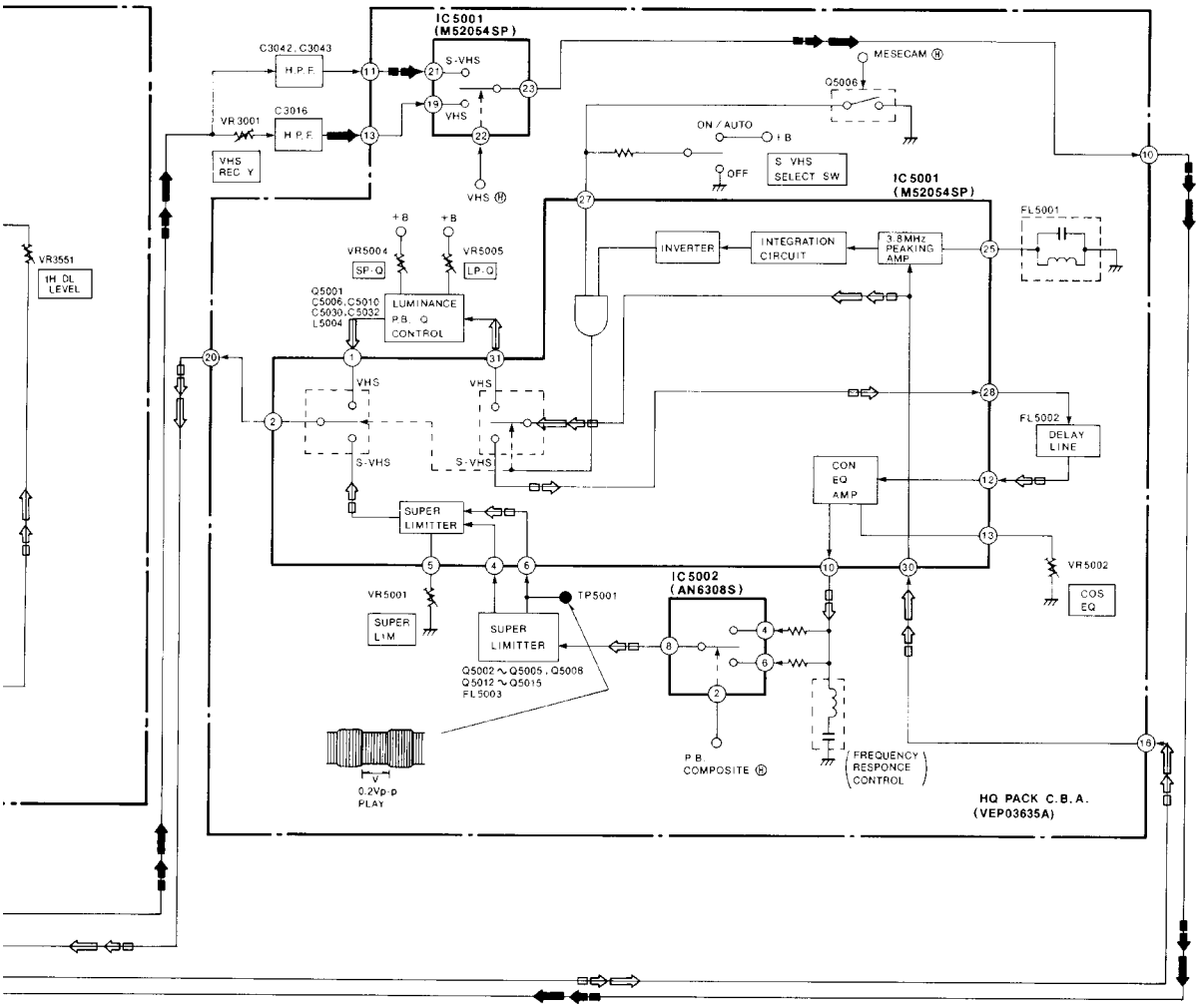


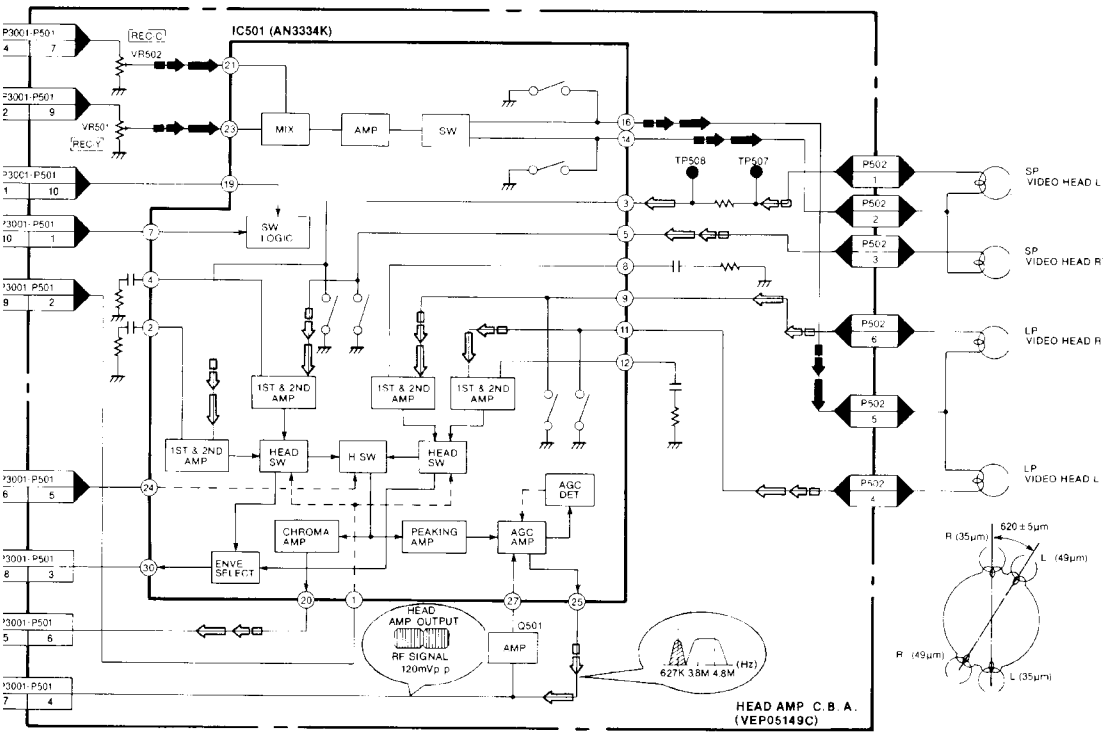
PATH IN PLAYBACK MODE (VHS) ◀■ MAIN SIGNAL PATH IN REC MODE (S-VHS) ◁⊏



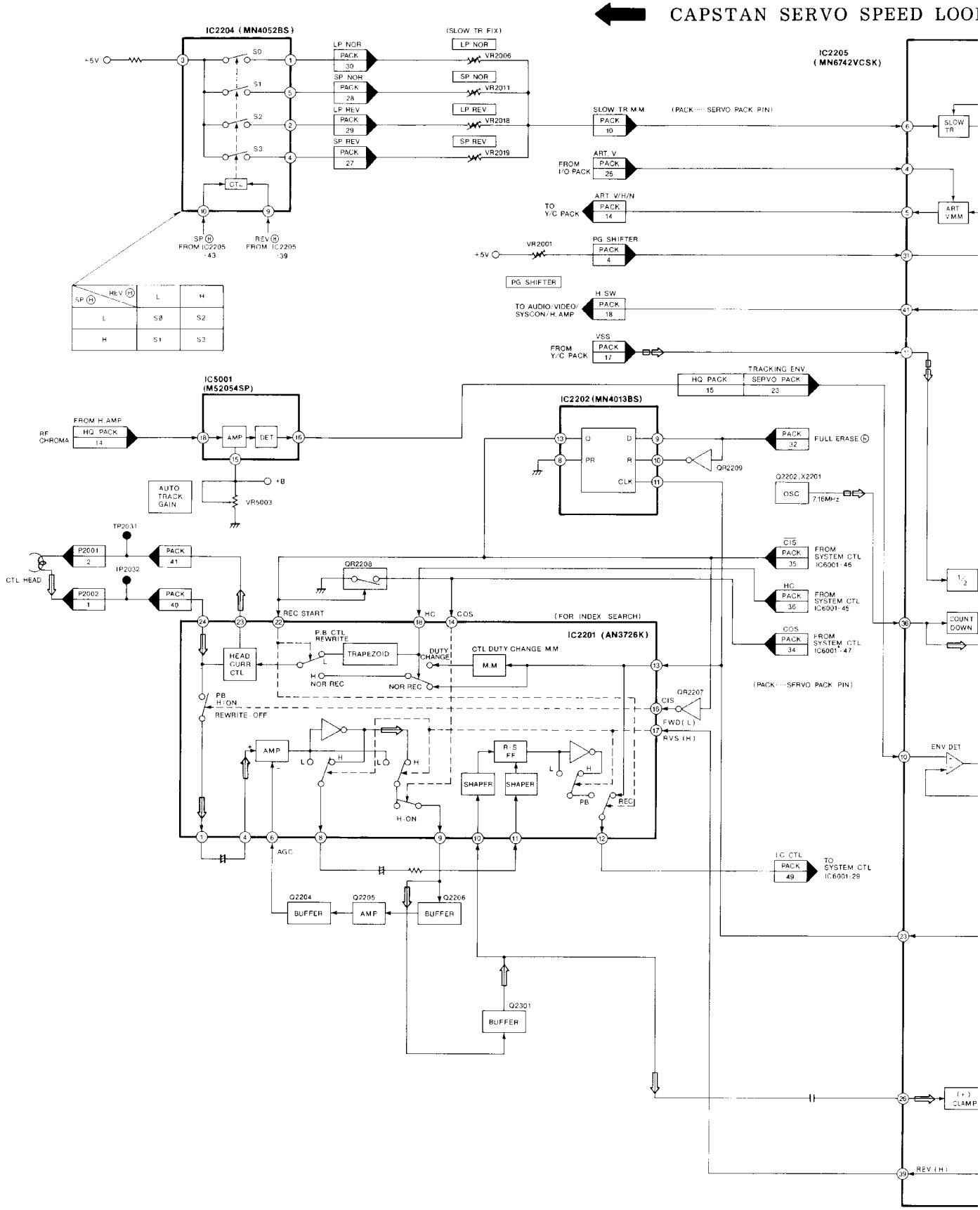
HS) ⇦▭ MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)



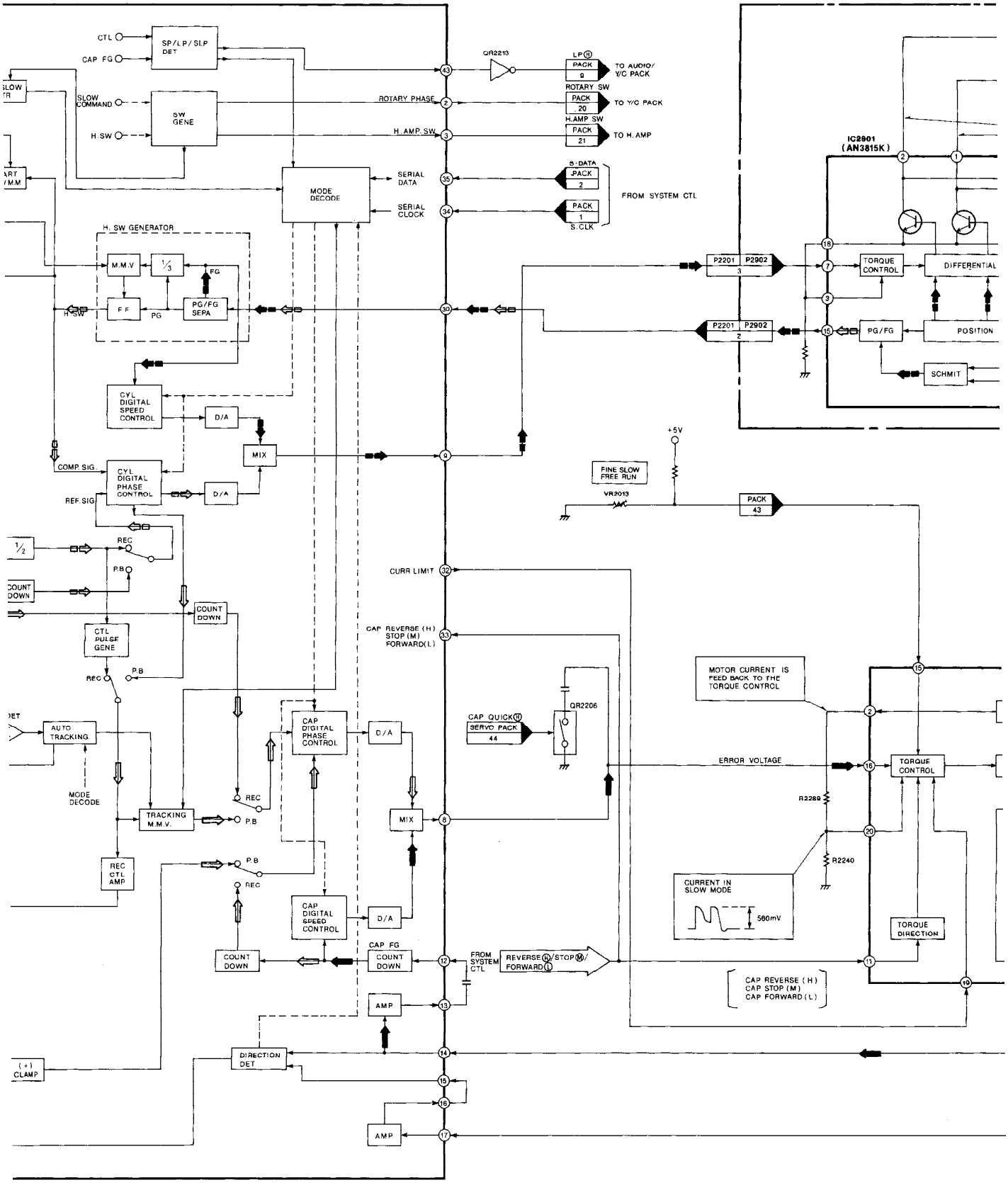

IC 5001
(M52054SP)
C3042, C3043
H.P.F.
VR3001
C3016
H.P.F.
VHS REC. Y
S-VHS
VHS
VHS Ⓗ
MESECAM Ⓗ
Q5006
ON / AUTO
+B
OFF
S. VHS SELECT SW
IC 5001
(M52054SP)
VR3551
1H DL LEVEL
VR5004
SP-Q
VR5005
LP-Q
Q5001
C5006, C5010
C5030, C5032
L5004
LUMINANCE P.B. Q CONTROL
INVERTER
INTEGRATION CIRCUIT
3.8MHz PEAKING AMP
FL5001
FL5002
DELAY LINE
CON EQ AMP
SUPER LIMITTER
VR5001
SUPER LIM
SUPER LIMITTER
TP5001
IC 5002
(AN6308S)
VR5002
COS EQ
Q5002 ~ Q5005, Q5008
Q5012 ~ Q5015
FL5003
P.B. COMPOSITE Ⓗ
FREQUENCY RESPONCE CONTROL
0.2Vp-p PLAY
HQ PACK C.B.A.
(VEP03635A)


IC501 (AN3334K)
REC C
VR502
REC Y
VR501
MIX
AMP
SW
SW LOGIC
1ST & 2ND AMP
HEAD SW
H SW
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
ENVE SELECT
TP508
TP507
P502
SP VIDEO HEAD L
SP VIDEO HEAD R
LP VIDEO HEAD R
LP VIDEO HEAD L
620 ± 5μm
R (35μm)
L (49μm)
R (49μm)
L (35μm)
HEAD AMP OUTPUT
RF SIGNAL
120mVp-p
Q501
AMP
627K 3.8M 4.8M (Hz)
HEAD AMP C.B.A.
(VEP05149C)

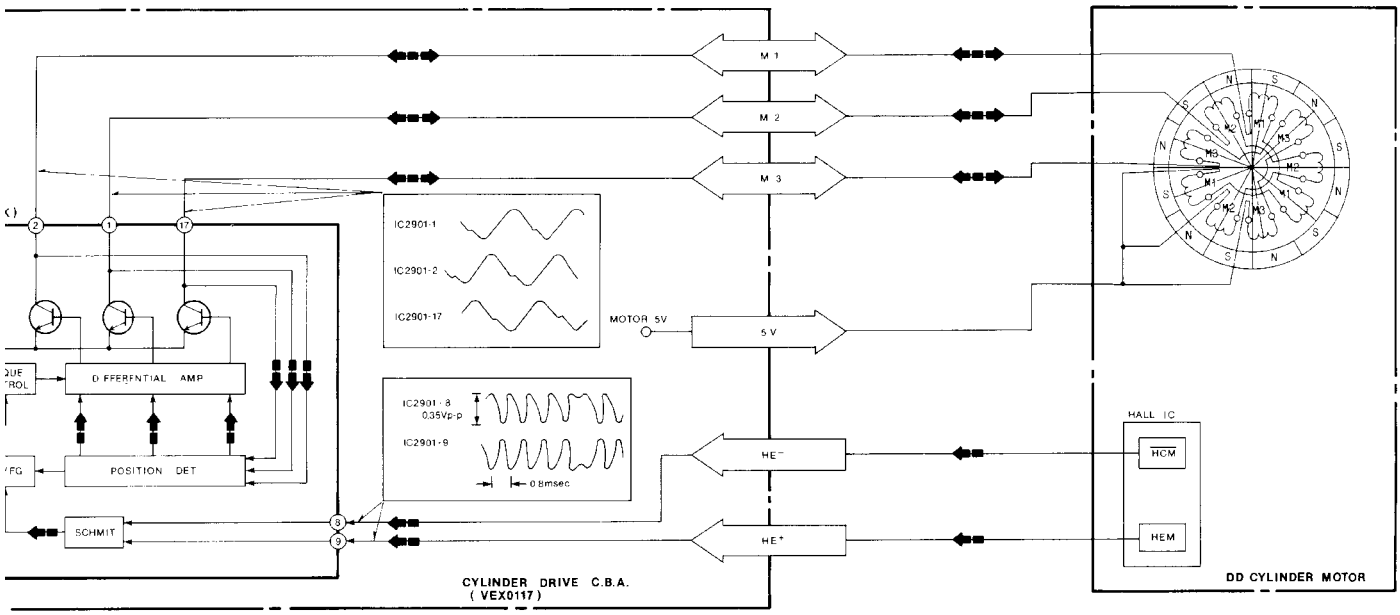
3-3. SERVO BLOCK DIAGRAM

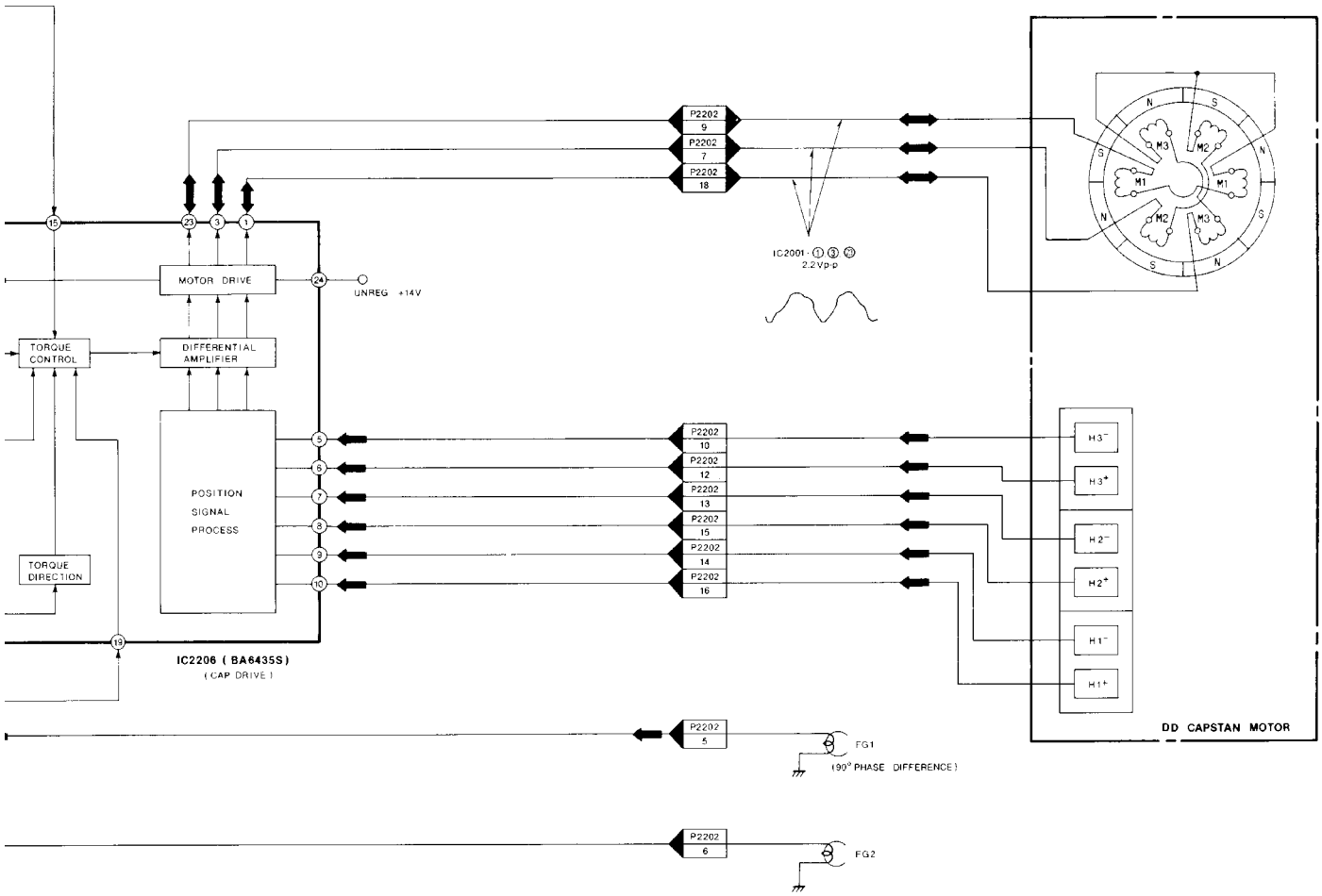


OOP ⇦ CAPSTAN SERVO PHASE LOOP ◀■ CYLINDER SERVO SPEED LOOP

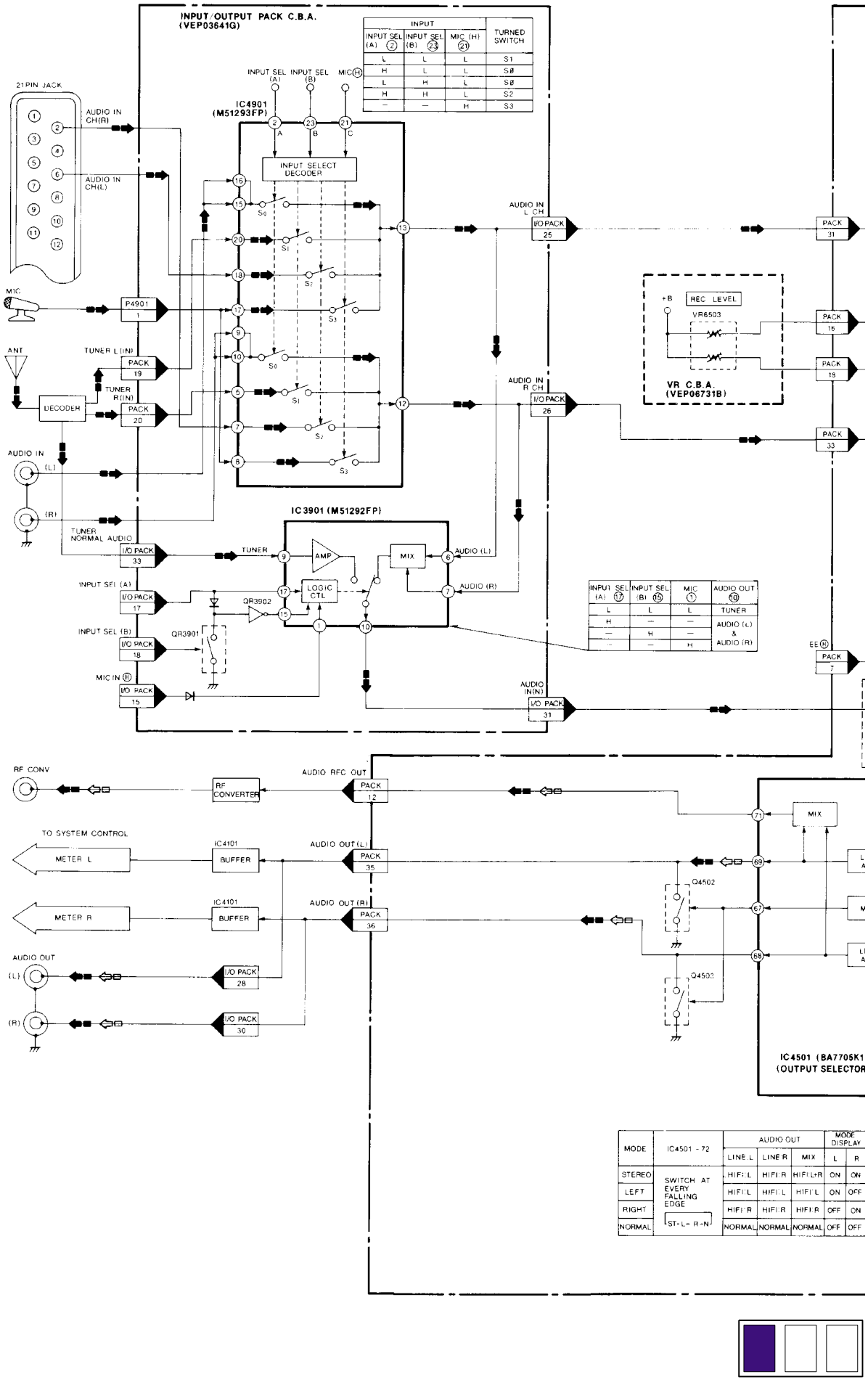


PEED LOOP ⇦▭ CYLINDER SERVO PHASE LOOP





3-4. Hi-Fi AUDIO BLOCK DIAGRAM



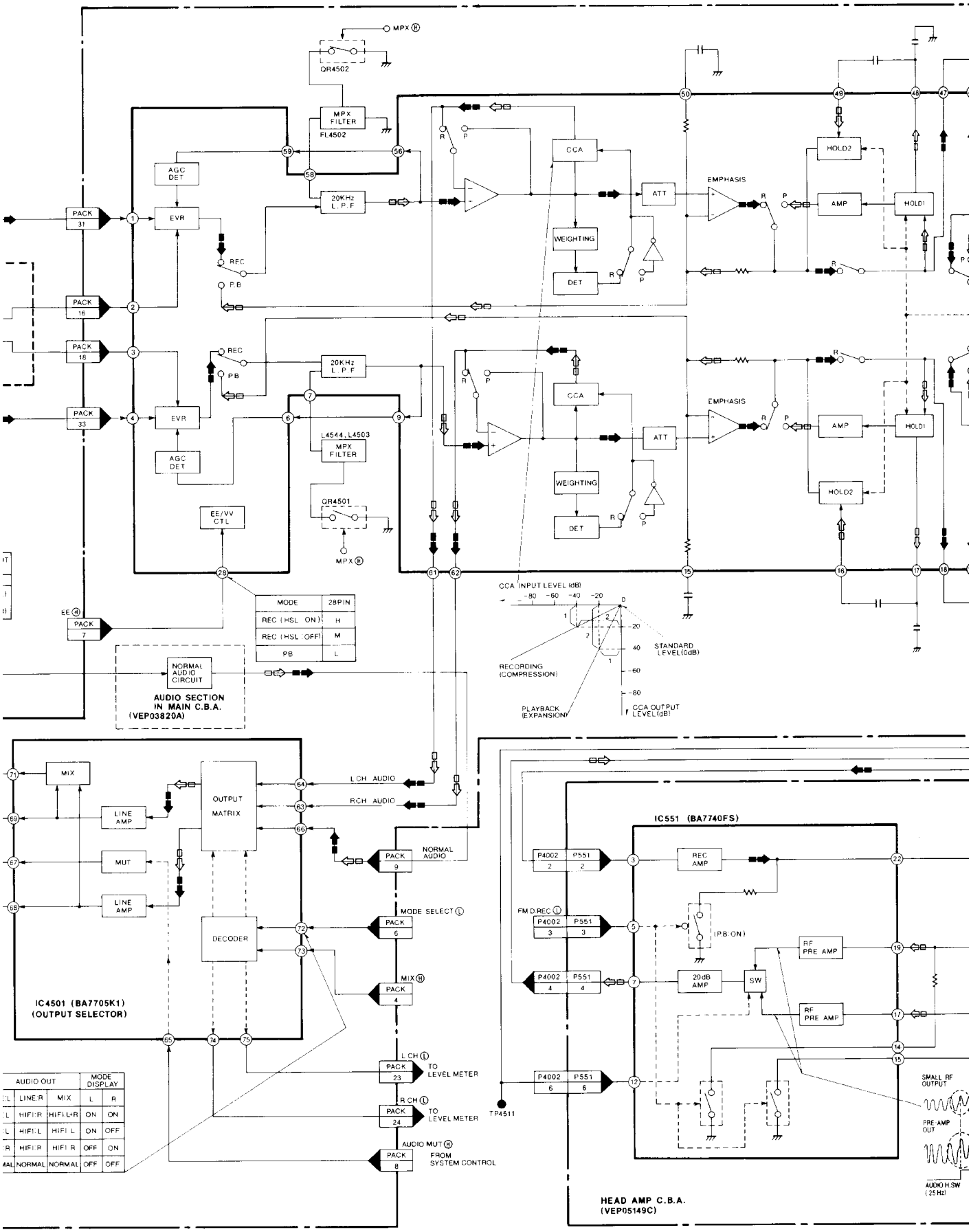
INPUT			TURNED SWITCH
INPUT SEL (A) ②	INPUT SEL (B) ㉓	MIC (H) ㉑	
L	L	L	S1
H	L	L	SØ
L	H	L	SØ
H	H	L	S2
—	—	H	S3

INPUT SEL (A) ⑰	INPUT SEL (B) ⑮	MIC ①	AUDIO OUT ⑩
L	L	L	TUNER
H	—	—	AUDIO (L) & AUDIO (R)
—	H	—	
—	—	H	

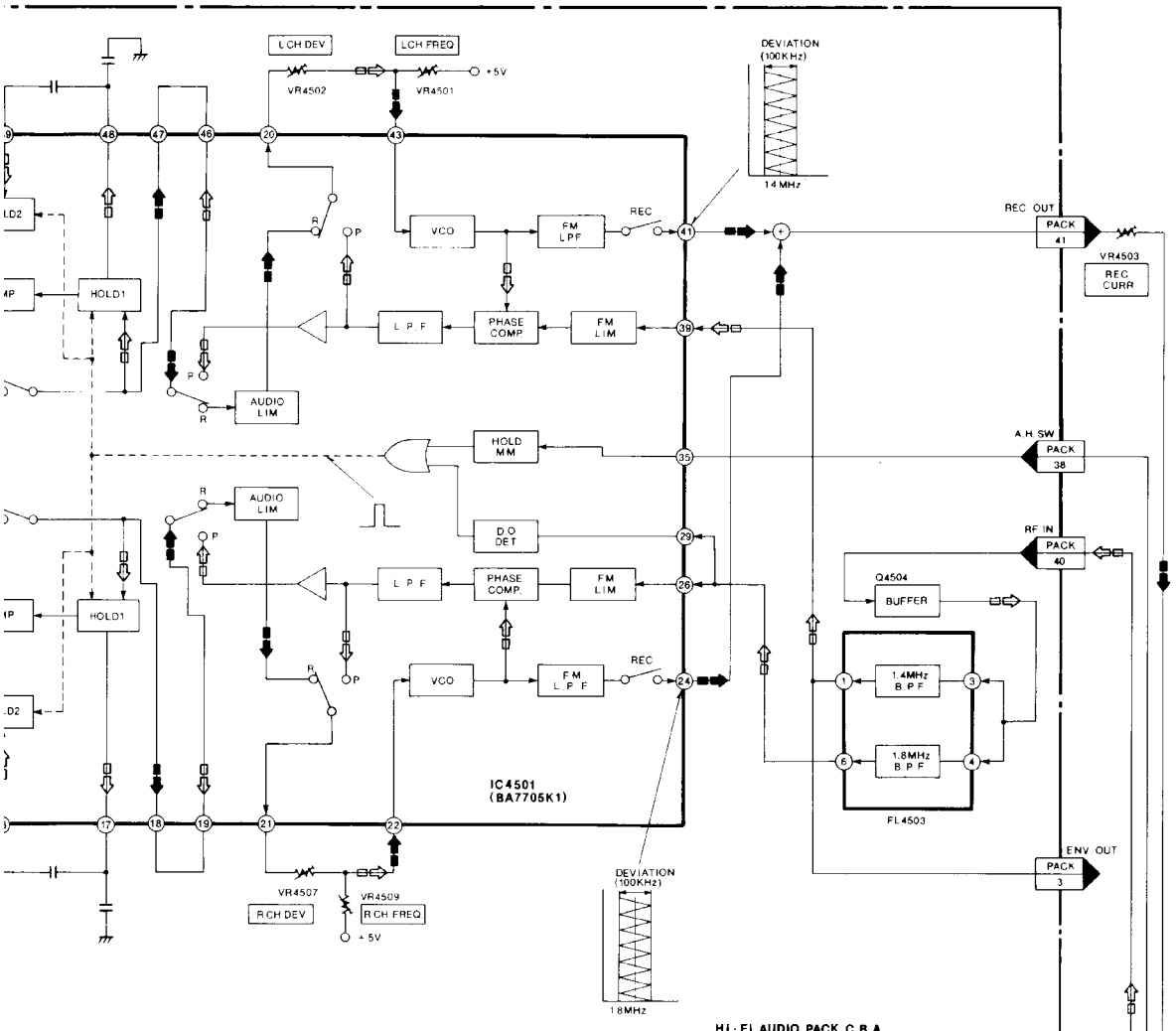
MODE	IC4501 - 72	AUDIO OUT			MODE DISPLAY	
		LINE L	LINE R	MIX	L	R
STEREO	SWITCH AT EVERY FALLING EDGE ST-L-R-N	HIFI L	HIFI R	HIFI L+R	ON	ON
LEFT		HIFI L	HIFI L	HIFI L	ON	OFF
RIGHT		HIFI R	HIFI R	HIFI R	OFF	ON
NORMAL		NORMAL	NORMAL	NORMAL	OFF	OFF

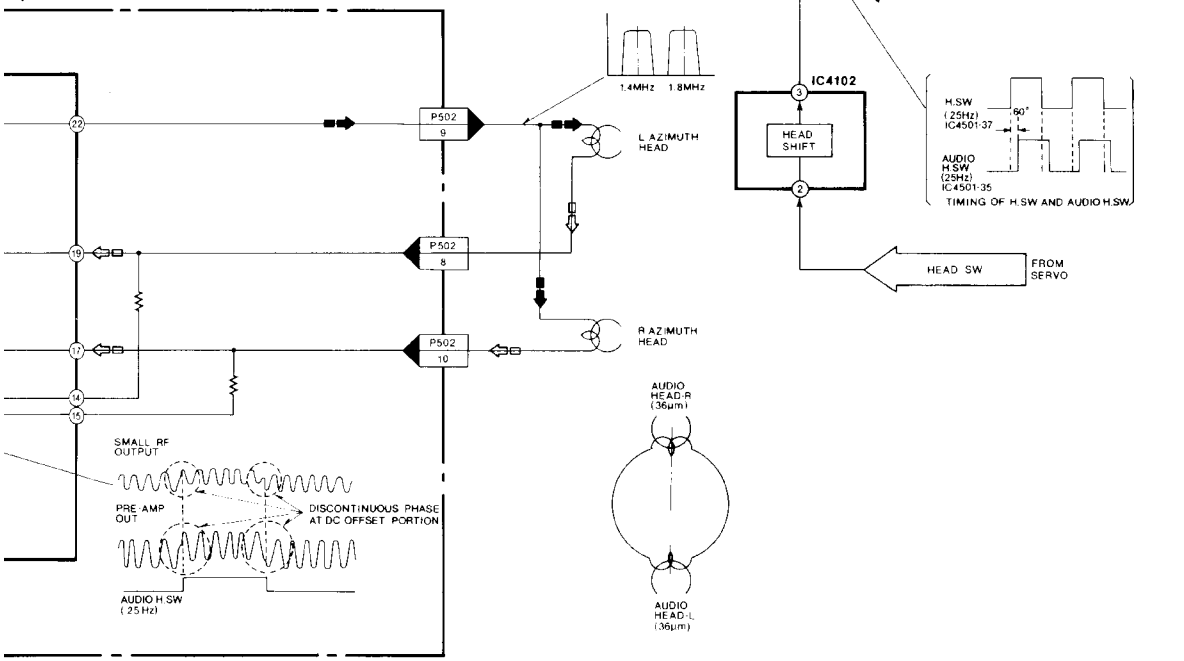
MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLA

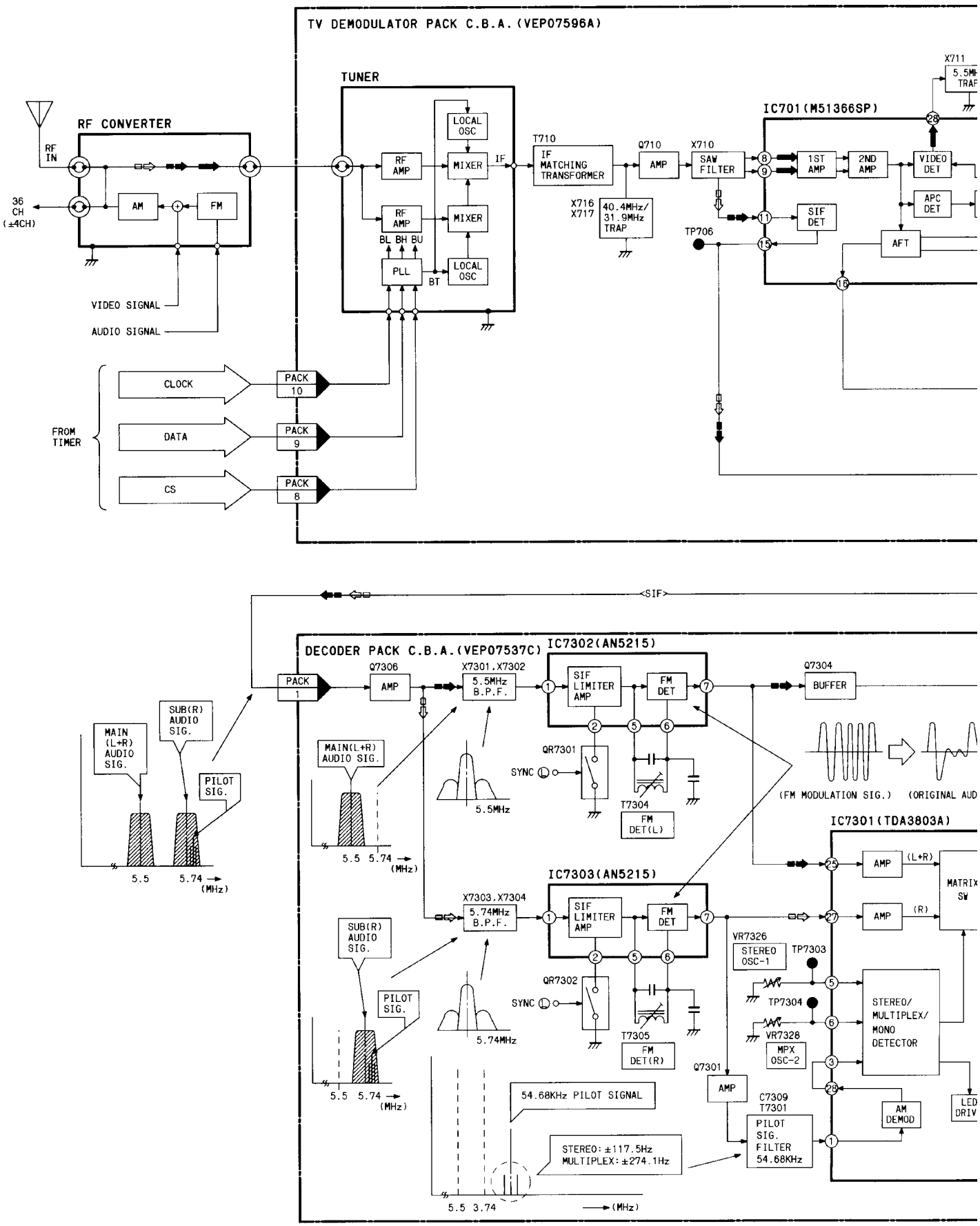


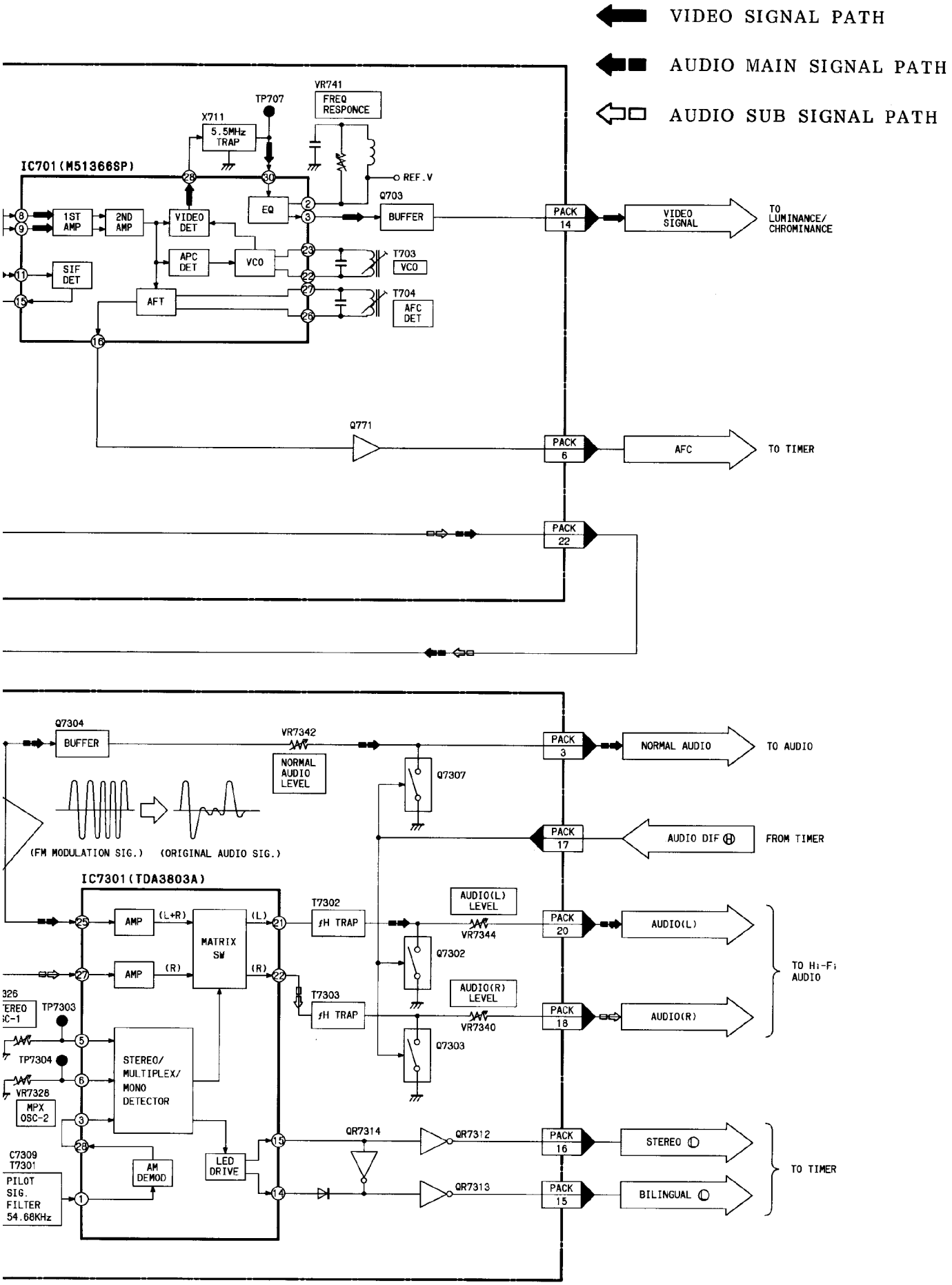
PATH IN PLAYBACK MODE



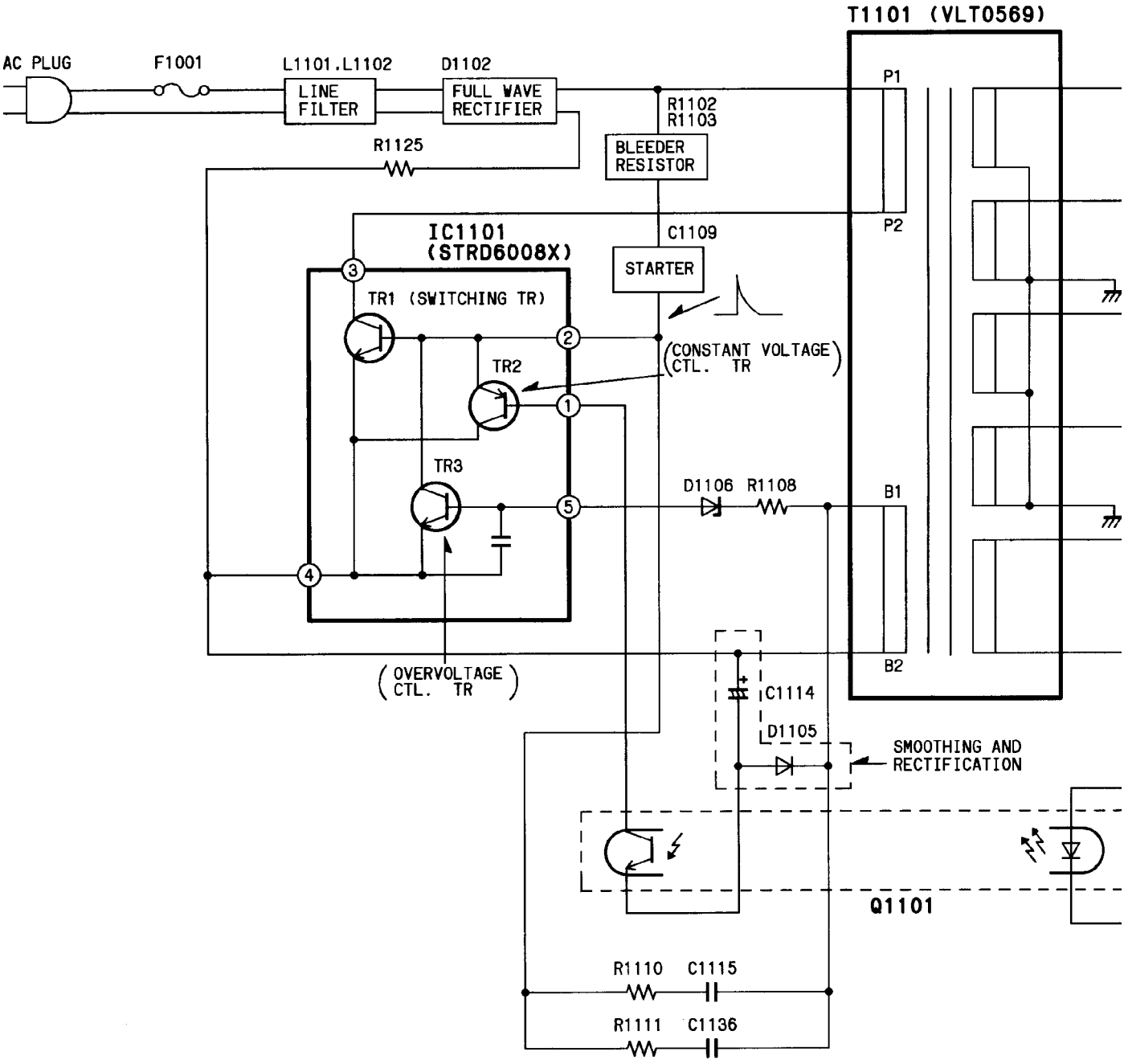


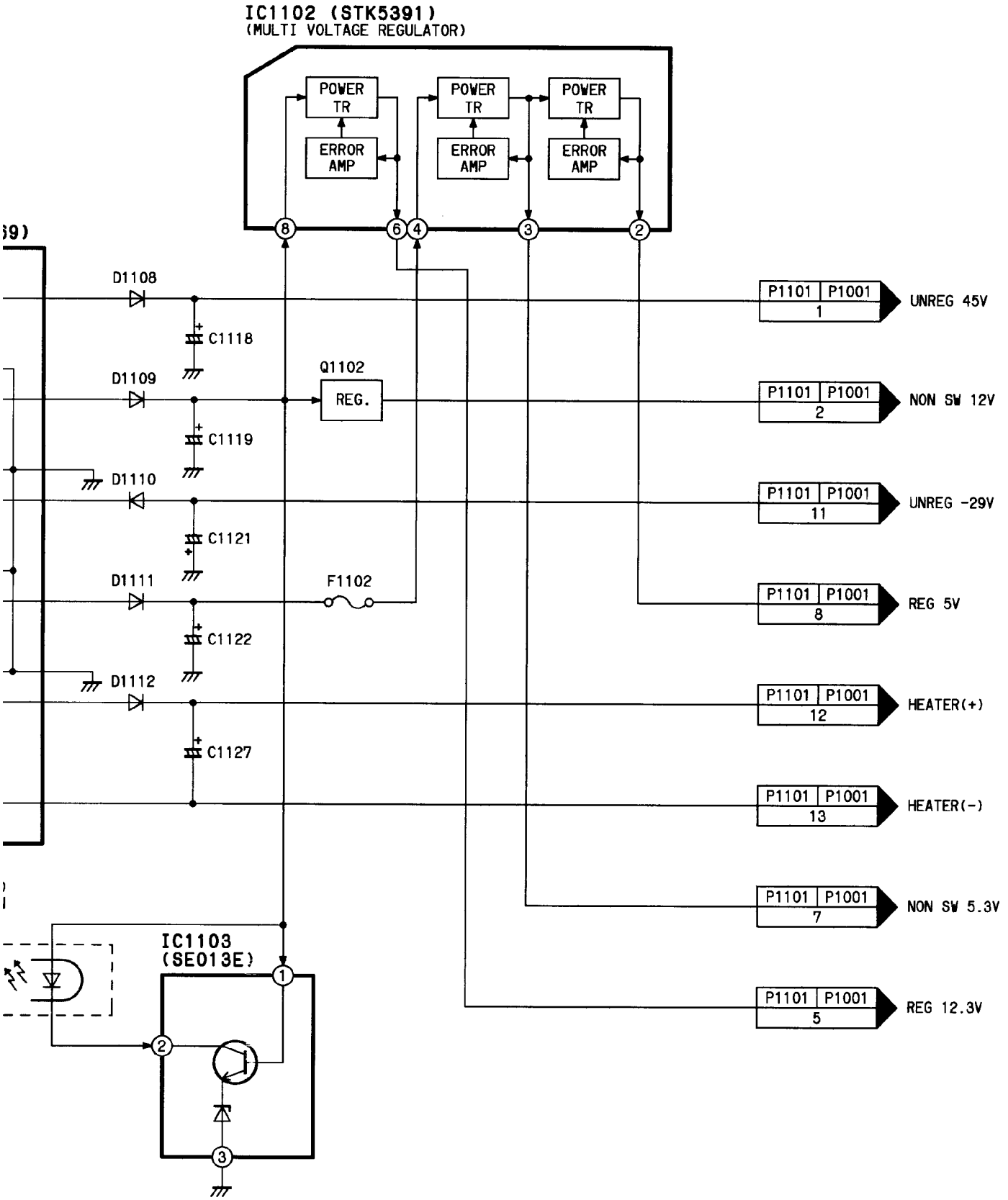
3-5. TV DEMODULATOR & DECODER BLOCK DIAGRAM



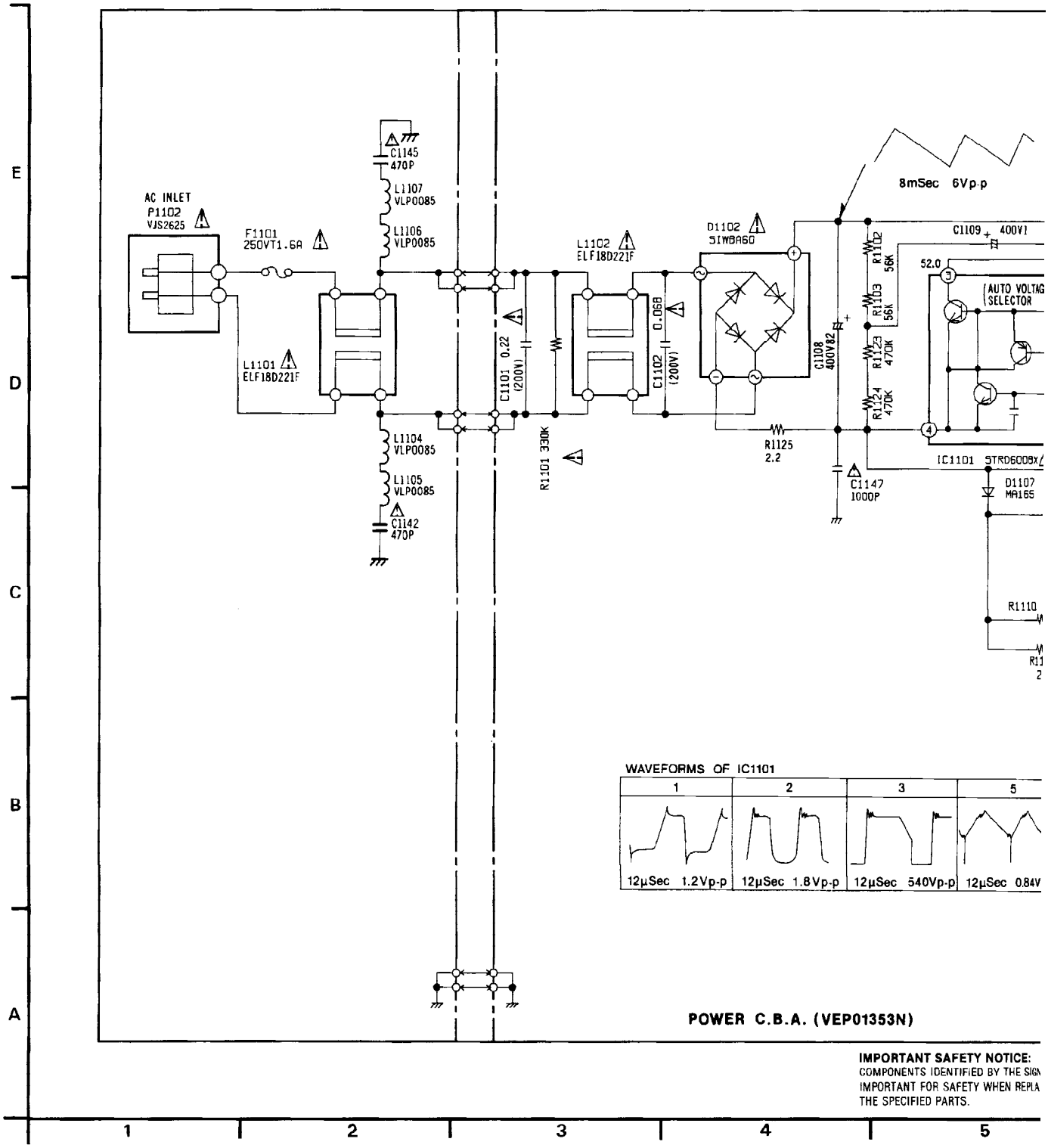

VIDEO SIGNAL PATH
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH
IC701(M51366SP)
TP707
VR741
FREQ RESPONCE
X711
5.5MHz TRAP
REF.V
Q703
BUFFER
1ST AMP
2ND AMP
VIDEO DET
EQ
APC DET
VCO
SIF DET
AFT
T703
VCO
T704
AFC DET
PACK 14
VIDEO SIGNAL
TO LUMINANCE/ CHROMINANCE
Q771
PACK 6
AFC
TO TIMER
PACK 22
Q7304
BUFFER
VR7342
NORMAL AUDIO LEVEL
Q7307
PACK 3
NORMAL AUDIO
TO AUDIO
PACK 17
AUDIO DIF
FROM TIMER
(FM MODULATION SIG.)
(ORIGINAL AUDIO SIG.)
IC7301(TDA3803A)
AMP
(L+R)
MATRIX SW
(L)
(R)
T7302
fH TRAP
AUDIO(L) LEVEL
VR7344
Q7302
PACK 20
AUDIO(L)
T7303
AUDIO(R) LEVEL
VR7340
Q7303
PACK 18
AUDIO(R)
TO Hi-Fi AUDIO
TP7303
TP7304
VR7328
MPX OSC-2
STEREO/ MULTIPLEX/ MONO DETECTOR
AM DEMOD
LED DRIVE
C7309
T7301
PILOT SIG. FILTER 54.68KHz
QR7314
QR7312
QR7313
PACK 16
STEREO
PACK 15
BILINGUAL
TO TIMER

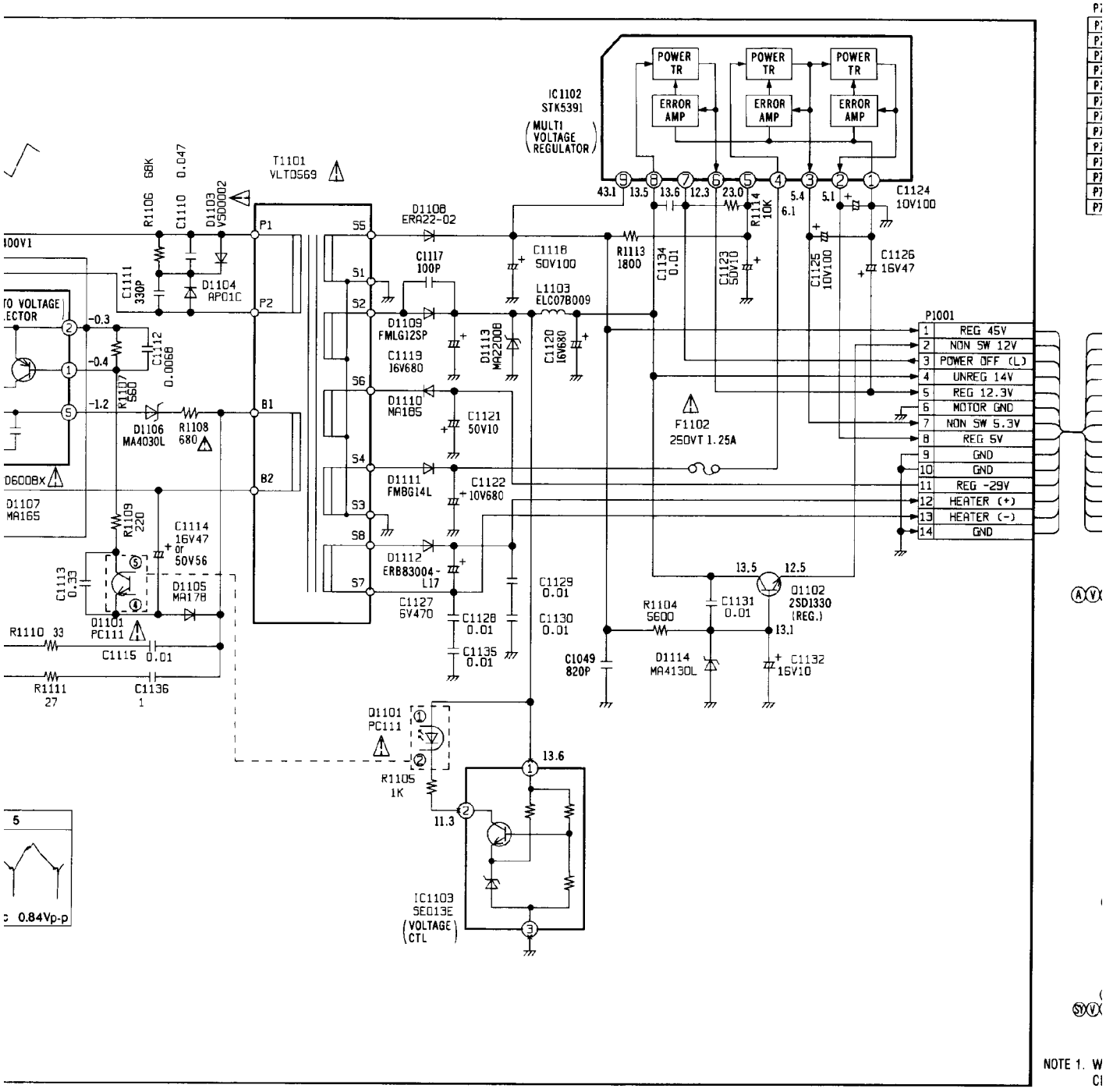
3-6. POWER BLOCK DIAGRAM




IC1102 (STK5391)
(MULTI VOLTAGE REGULATOR)
POWER TR
POWER TR
POWER TR
ERROR AMP
ERROR AMP
ERROR AMP
8
6
4
3
2
D1108
C1118
D1109
Q1102
REG.
C1119
D1110
C1121
D1111
F1102
C1122
D1112
C1127
P1101 P1001 1
UNREG 45V
P1101 P1001 2
NON SW 12V
P1101 P1001 11
UNREG -29V
P1101 P1001 8
REG 5V
P1101 P1001 12
HEATER(+)
P1101 P1001 13
HEATER(-)
P1101 P1001 7
NON SW 5.3V
P1101 P1001 5
REG 12.3V
IC1103
(SE013E)
1
2
3

3-7. POWER SCHEMATIC DIAGRAM





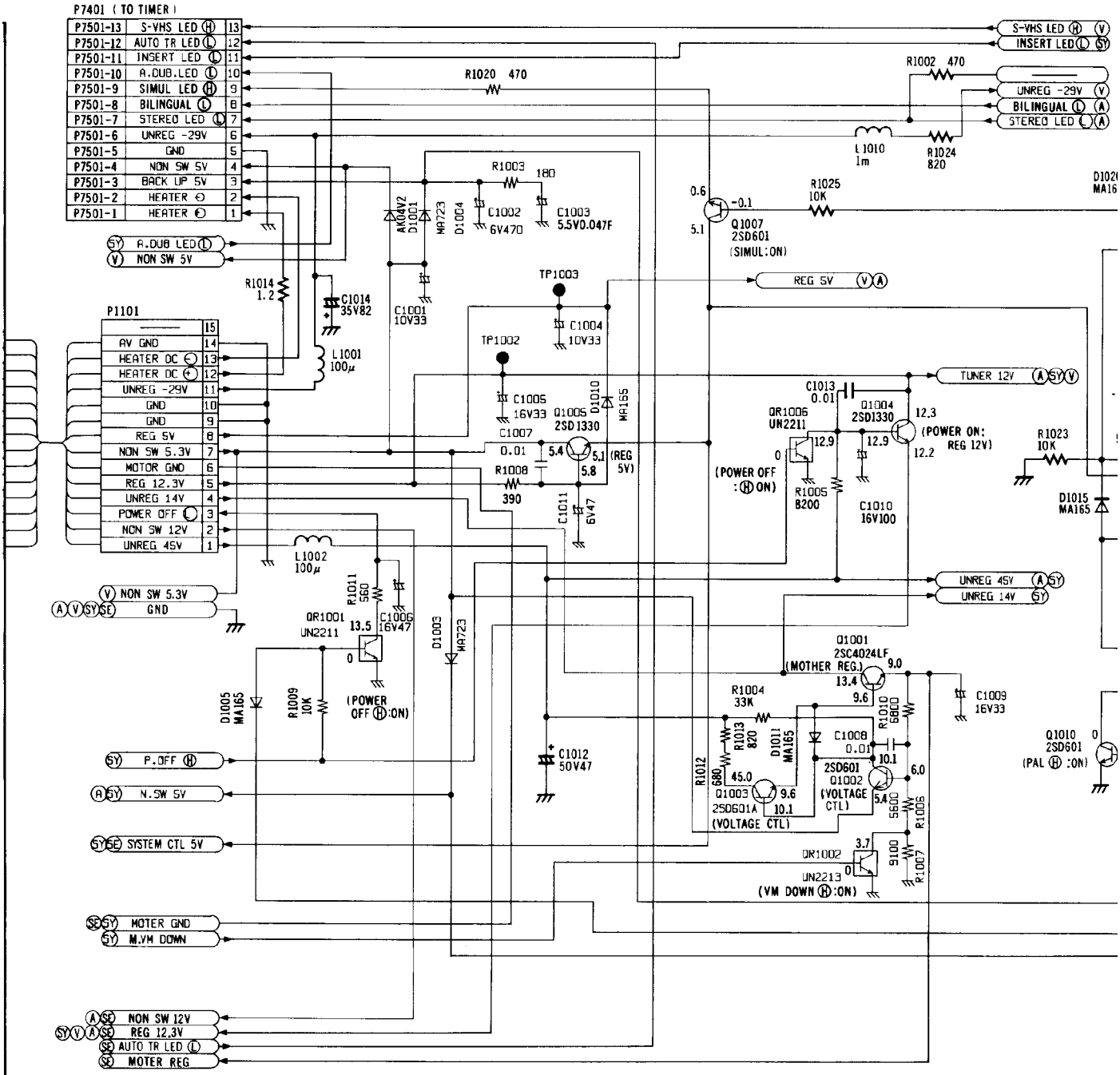
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
(S-VHS: SP MODE)

NOTE 1. W
C

NOTE 2. T
IN

TICE:
THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS
EN REPLACING ANY OF THESE COMPONENTS, USE ONLY

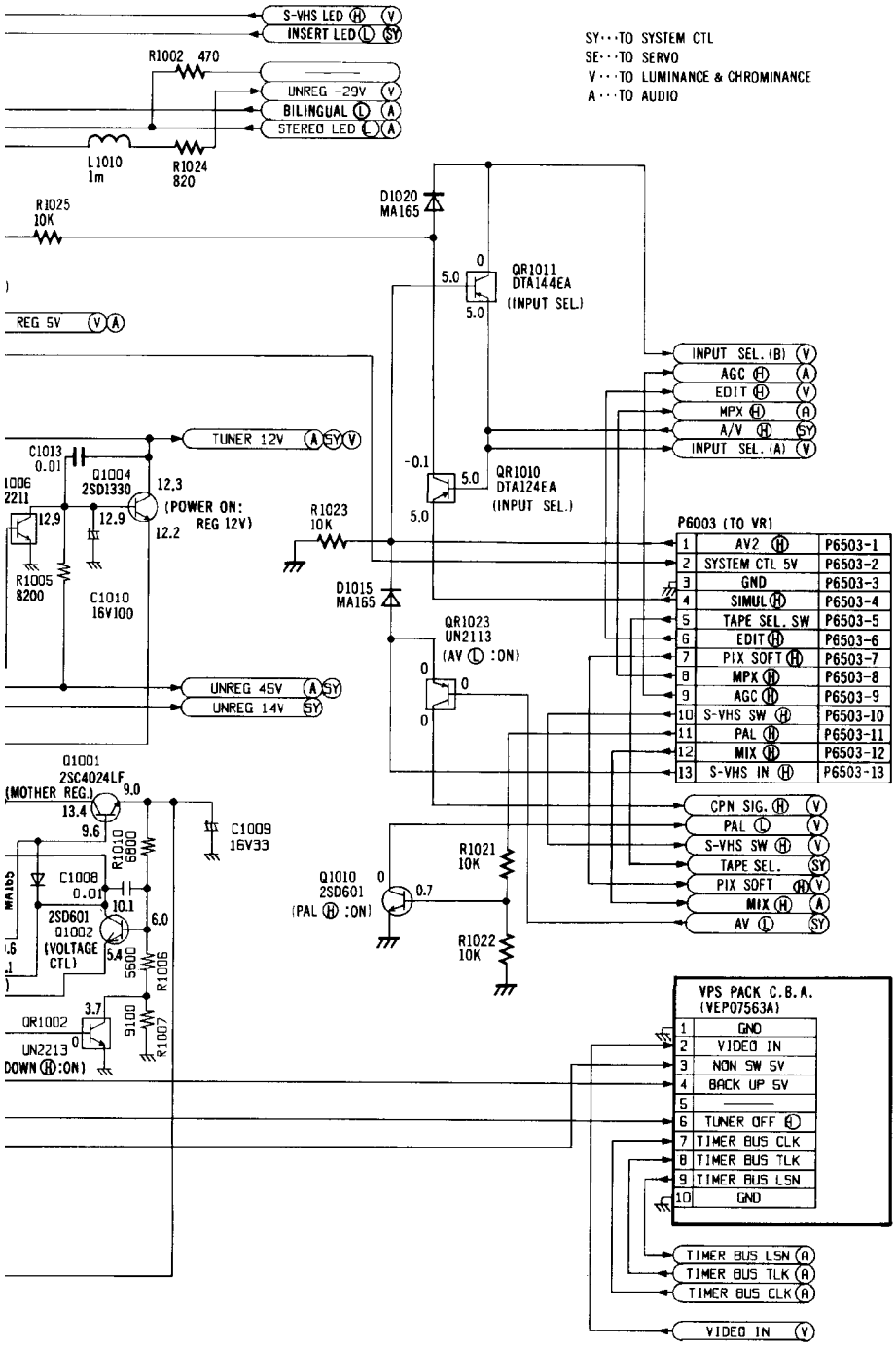
6 7 8 9 10



NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ..... IC1101-(4)
SECONDARY SIDE... TP GND OF MAIN C.B.A.

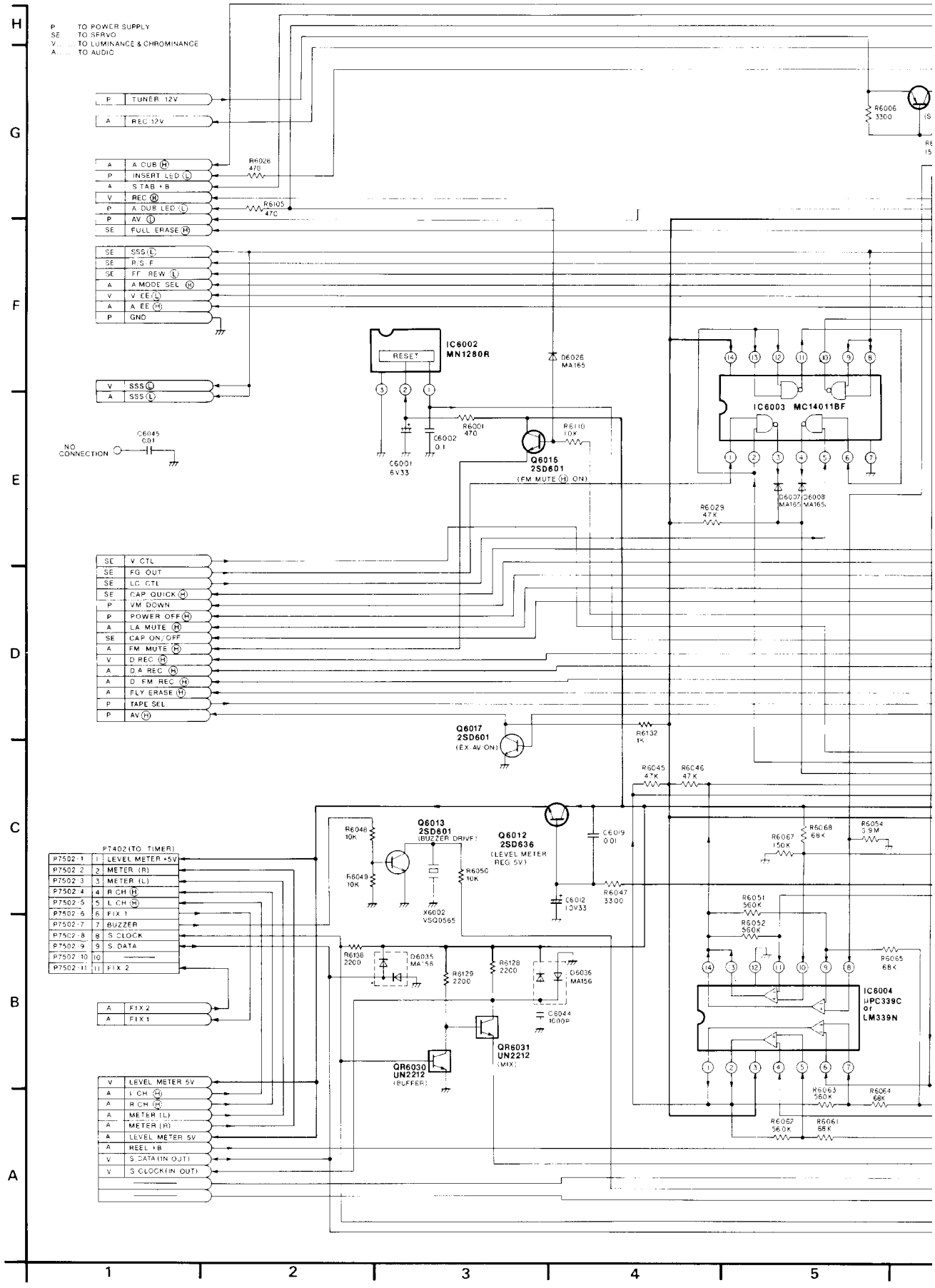
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

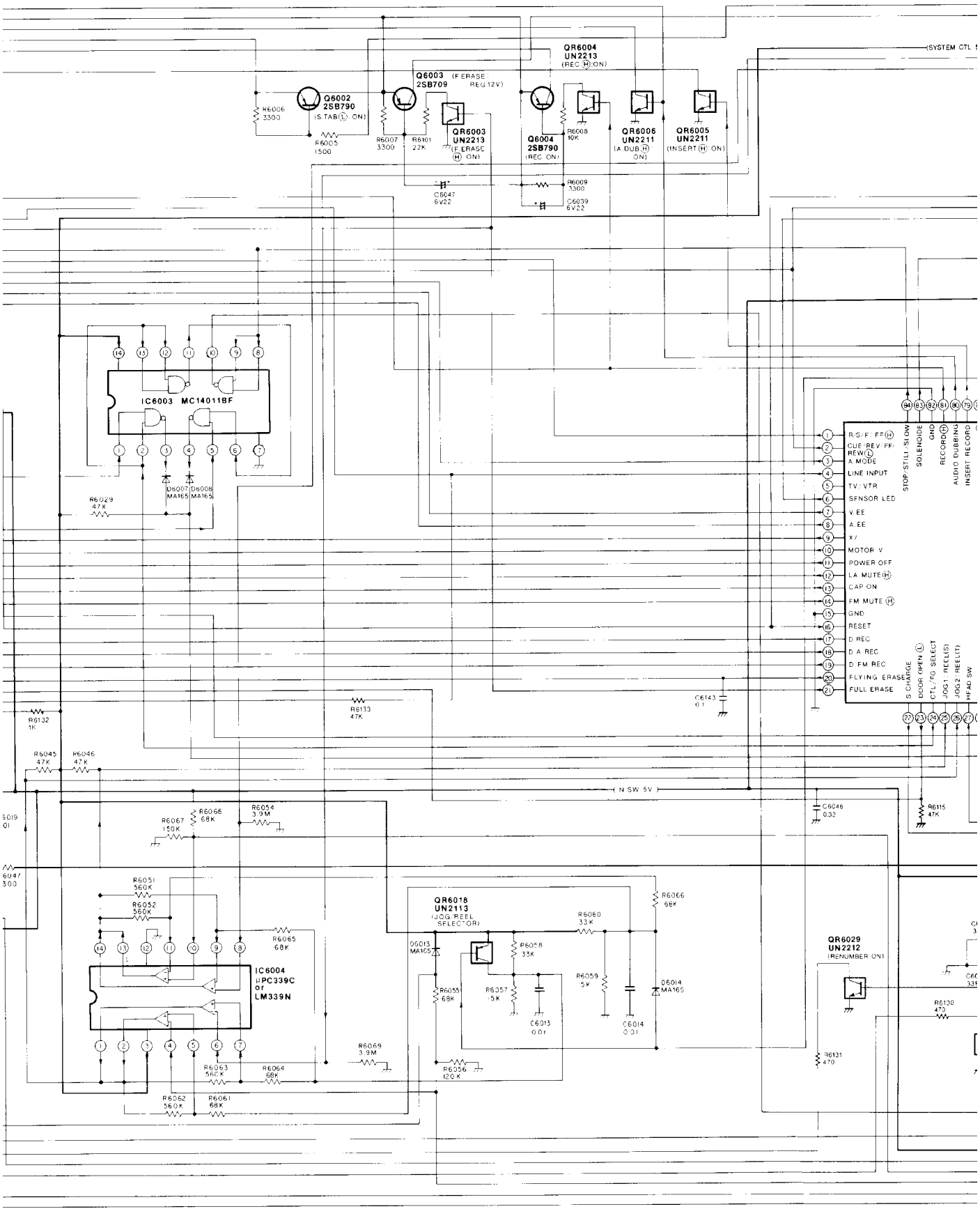
NOTE: DO NOT USE ANY PART NUMBER SHO
ORDERING. WHEN YOU ORDER A PAR



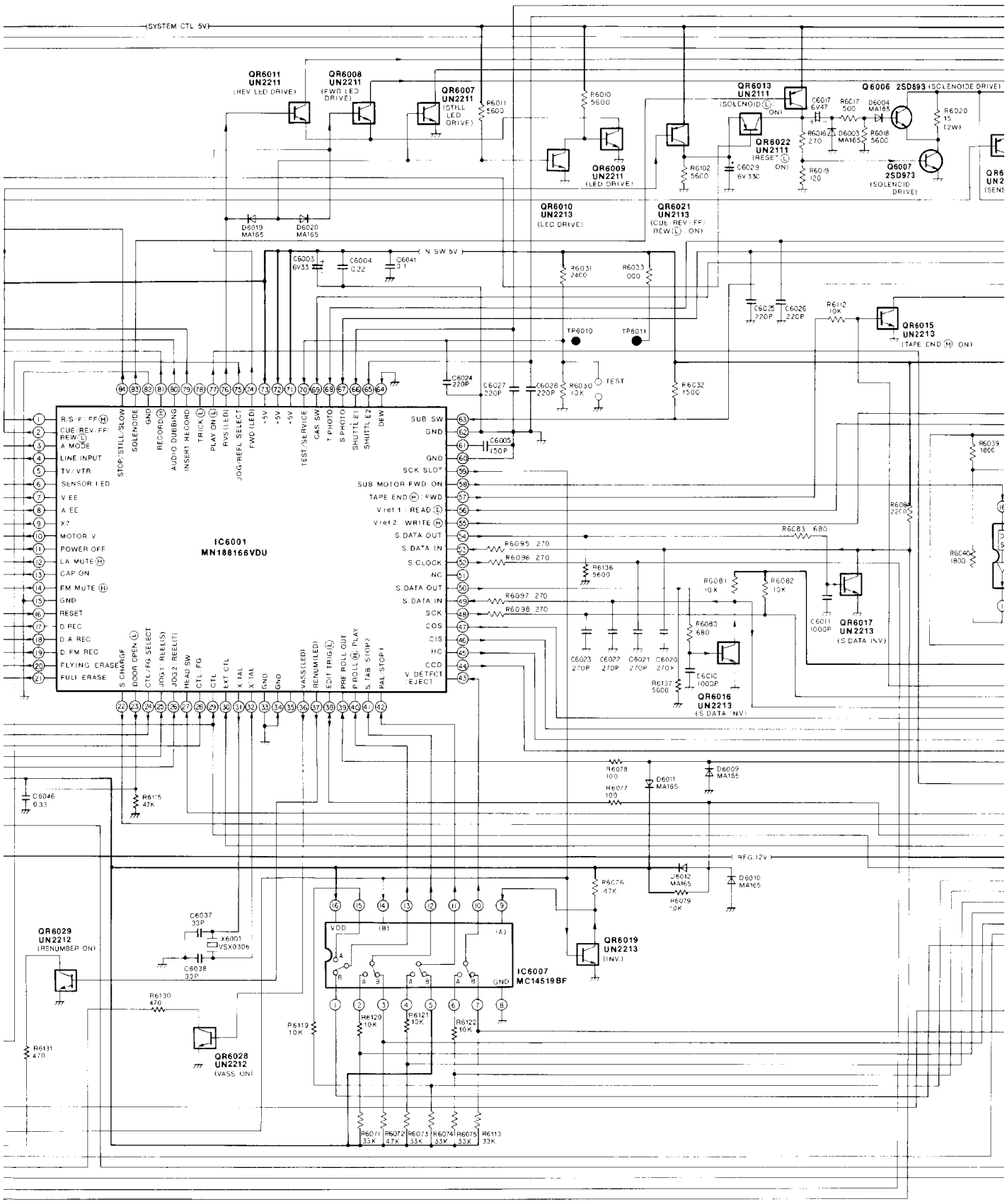
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

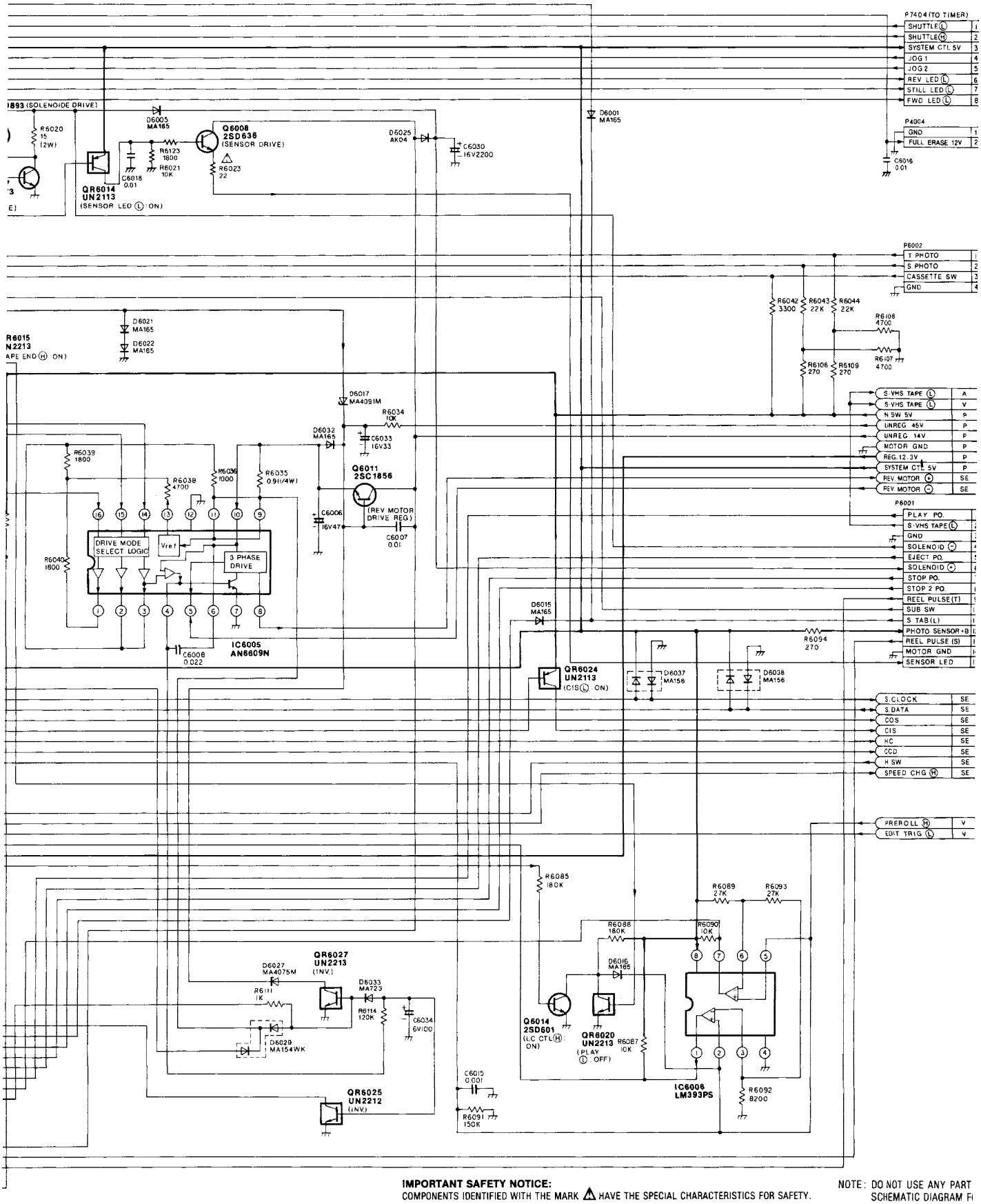
3-9. SYSTEM CONTROL SCHEMATIC DIAGRAM




Q6002 2SB790 (S.TAB(L): ON)
Q6003 (F.ERASE: REG 12V)
2SB709
QR6003 UN2213 (F.ERASE (H): ON)
QR6004 UN2213 (REC (H): ON)
Q6004 2SB790 (REC: ON)
QR6006 UN2211 (A.DUB (H): ON)
QR6005 UN2211 (INSERT (H): ON)
(SYSTEM CTL
IC6003 MC14011BF
D6007 MA165
D6008 MA165
R/S/F: FF (H)
CUE/REV: FF/REW (L)
A.MODE
LINE INPUT
TV/VTR
SENSOR LED
V.EE
A.EE
X/
MOTOR V
POWER OFF
LA MUTE (H)
CAP ON
FM MUTE (H)
GND
RESET
D.REC
D.A.REC
D.FM REC
FLYING ERASE
FULL ERASE
STOP: STILL: SLOW
SOLENOID
GND
RECORD (H)
AUDIO DUBBING
INSERT RECORD
S.CHARGE
DOOR OPEN (L)
CTL/FG SELECT
JOG1: REEL (S)
JOG2: REEL (T)
HEAD SW
(N.SW 5V)
IC6004 μPC339C or LM339N
QR6018 UN2113 (JOG/REEL SELECTOR)
QR6029 UN2212 (RENUMBER ON)
D6013 MA165
D6014 MA165

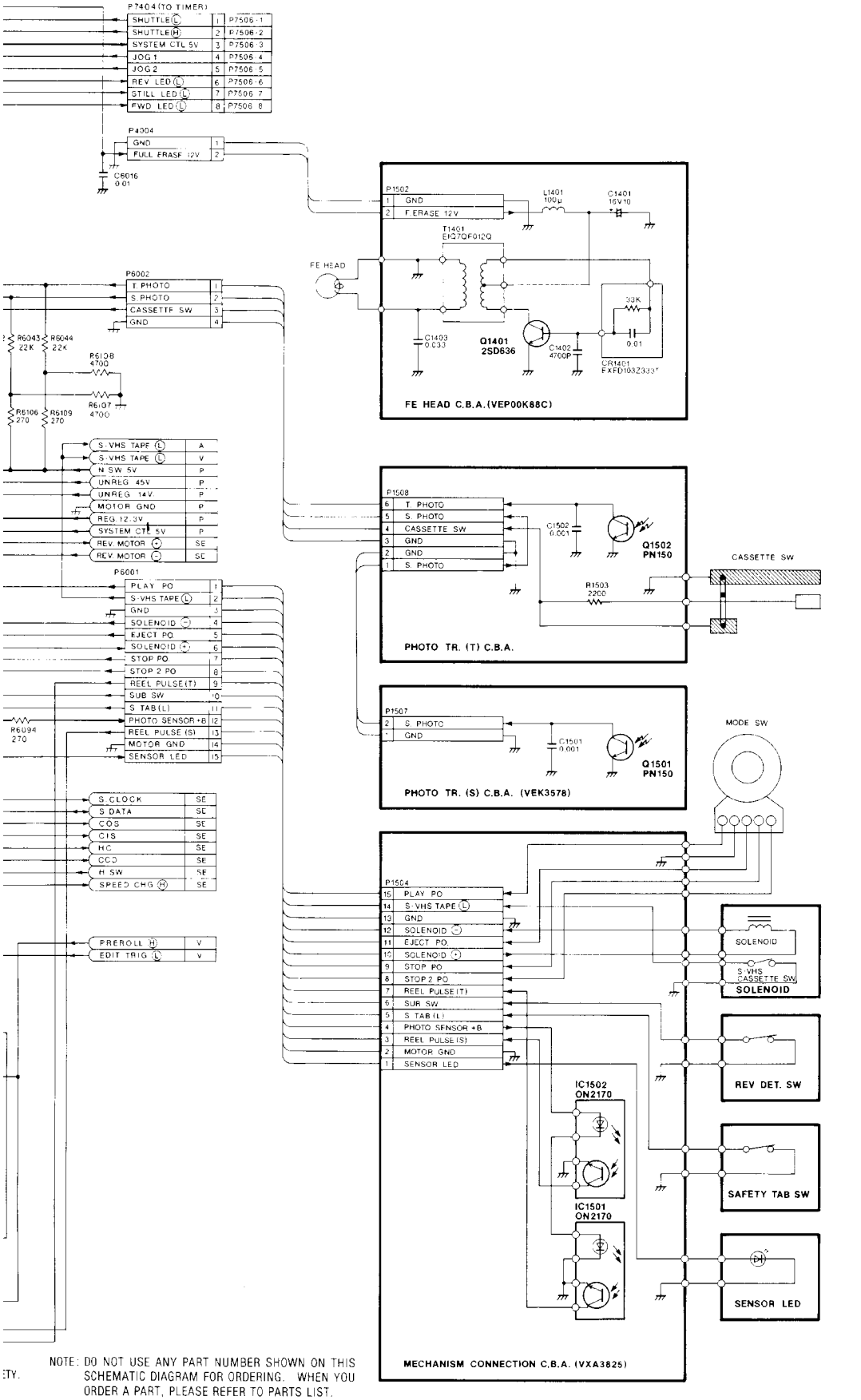
4 5 6 7 8 9


(SYSTEM CTL 5V)
QR6011 UN2211 (REV LED DRIVE)
QR6008 UN2211 (FWD LED DRIVE)
QR6007 UN2211 (STILL LED DRIVE)
QR6009 UN2211 (LED DRIVE)
QR6010 UN2213 (LED DRIVE)
QR6013 UN2111 (SOLENOID (L): ON)
QR6022 UN2111 (RESET (L): ON)
Q6006 2SD893 (SOLENOIDE DRIVE)
Q6007 2SD973 (SOLENOID DRIVE)
QR6021 UN2113 (CUE/REV/FF/REW (L): ON)
QR6015 UN2213 (TAPE END (H): ON)
QR6017 UN2213 (S.DATA INV)
QR6016 UN2213 (S.DATA INV)
QR6019 UN2213 (INV.)
QR6029 UN2212 (RENUMBER ON)
QR6028 UN2212 (VASS ON)
IC6001 MN188166VDU
IC6007 MC14519BF
D6019 MA165
D6020 MA165
D6011 MA165
D6009 MA165
D6012 MA165
D6010 MA165
D6003 MA165
D6004 MA165
X6001 VSX0306
(SW 5V)
(REG.12V)
STOP/STILL/SLOW
SOLENOIDE
GND
RECORD (H)
AUDIO DUBBING
INSERT RECORD
TRICK (L)
PLAY ON (L)
RVS (LED)
JOG/REEL SELECT
FWD (LED)
+5V
+5V
+5V
TEST/SERVICE
CAS SW
T PHOTO
S PHOTO
SHUTTLE1
SHUTTLE2
DEW
SUB SW
GND
GND
SCK SLOT
SUB MOTOR FWD: ON
TAPE END (H): FWD
Vref1: READ (L)
Vref2: WRITE (H)
S.DATA OUT
S.DATA IN
S.CLOCK
NC
S.DATA OUT
S.DATA IN
SCK
COS
CIS
HC
CCD
V.DETECT
EJECT
R/S: FF (H)
CUE/REV/FF/REW (L)
A.MODE
LINE INPUT
TV/VTR
SENSOR LED
V.EE
A.EE
X7
MOTOR V
POWER OFF
LA MUTE (H)
CAP ON
FM MUTE (H)
GND
RESET
D.REC
D.A REC
D.FM REC
FLYING ERASE
FULL ERASE
S.CHARGE
DOOR OPEN (L)
CTL/FG SELECT
JOG1 REEL(S)
JOG2 REEL(T)
HEAD SW
CTL FG
CTL
EXT CTL
X'TAL
X'TAL
GND
GND
VASS(LED)
RENUM(LED)
EDIT TRIG (L)
PRE ROLL OUT
P.ROLL (H): PLAY
S.TAB STOP
PAL STOP
TP6010
TP6011
TEST
R6095 270
R6096 270
R6097 270
R6098 270
R6083 680
R6084 220Ω
R6039 1800
R6040 1800
R6081 10K
R6082 10K
R6080 680
R6078 100
R6077 100
R6076 47K
R6079 10K
R6115 47K
R6130 470
R6131 470
R6119 10K
R6120 10K
R6121 10K
R6122 10K
R6071 33K
R6072 47K
R6073 33K
R6074 33K
R6075 33K
R6113 33K
R6136 5600
R6137 5600
R6102 5600
R6010 5600
R6011 5600
R6031 2400
R6033 000
R6030 10K
R6032 1500
R6112 10K
R6016 270
R6019 120
R6017 500
R6018 5600
R6020 15 (2W)
C6003 6V33
C6004 0.22
C6041 0.1
C6024 220P
C6027 220P
C6028 220P
C6005 150P
C6025 220P
C6026 220P
C6029 6V330
C6017 6V47
C6023 270P
C6022 270P
C6021 270P
C6020 270P
C6C1C 1000P
C6011 1000P
C6046 0.33
C6037 33P
C6038 33P
GND
VDD
(B)
(A)



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART
SCHEMATIC DIAGRAM FI
ORDER A PART, PLEASE



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

ETY.

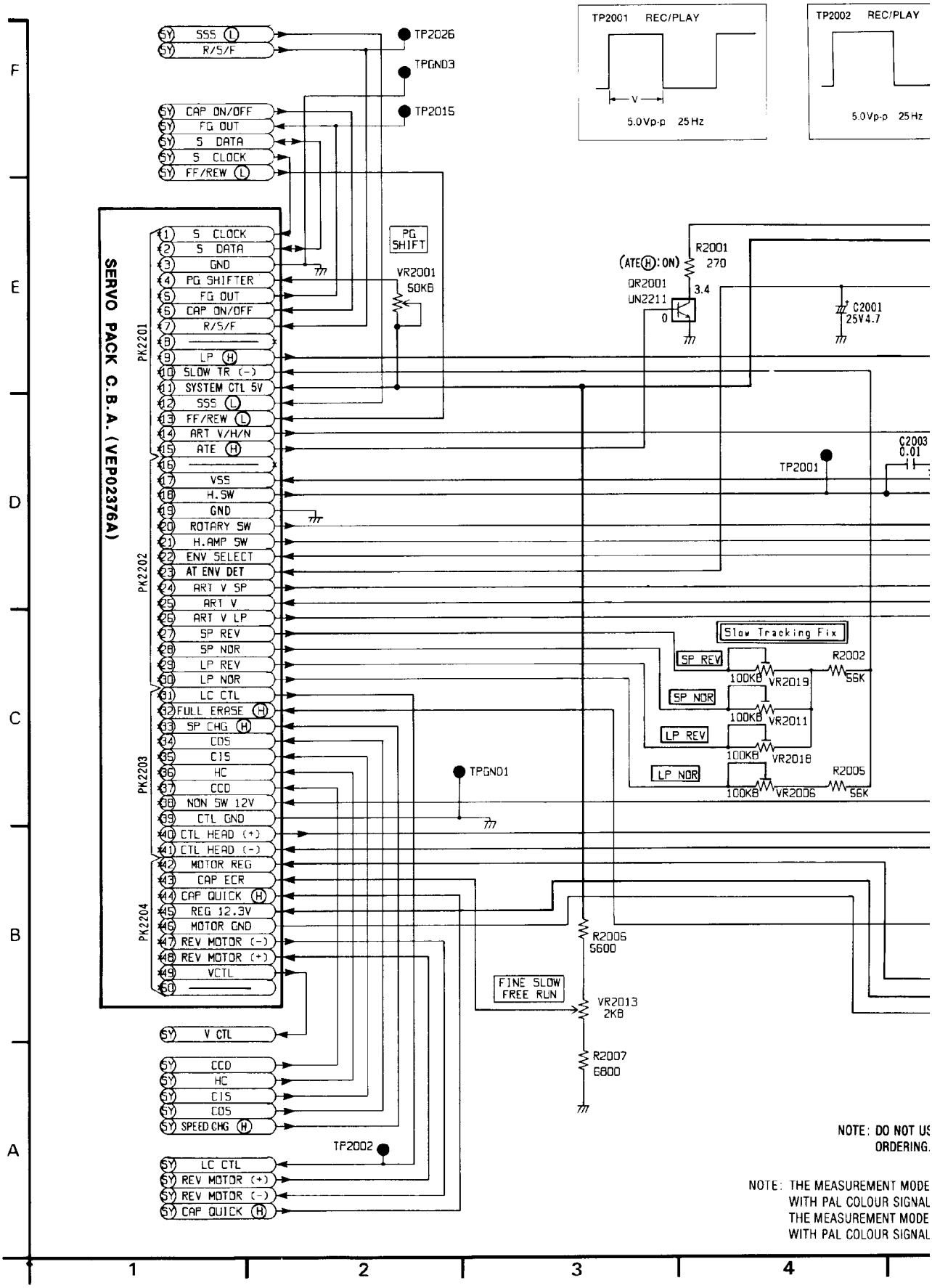
SYSTEM CONTROL ICs DC VOLTAGE CHART (S-VHS: SP MODE)

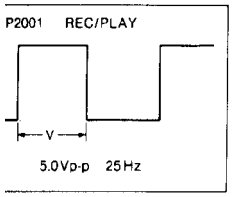
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	2.1	4.9	0	4.9	0	4.4	0.1	4.9	0	4.9	0	0	0	0	0	4.6	0.1	0	0	0
PLAY	0	4.9	0	4.9	0	4.4	4.9	0	0	0	0	0	4.9	0	0	4.6	0.1	0	0	0
FF	0	0	0	4.9	0	4.4	0.1	4.9	4.9	4.9	0	0	4.9	0	0	5.0	0.1	0	0	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	4.8	4.8	0	5.1	0.1	5.1	—	—	0	0	4.9	0	0	4.9	0	1.0
PLAY	0	0	0	0	4.8	4.8	3.0	2.6	3.0	3.4	—	—	0	0	4.9	0	0	4.9	0	0
FF	0	0	0	0	2.6	2.5	0	2.1	4.4	5.1	—	—	0	0	4.9	0	0	4.9	0	1.0
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.0	3.9	4.9	4.9	4.9	4.9	4.9	4.9	0.4	0.1	0	4.6	4.5	0.2	4.9	4.9	4.9	0	3.9	0
PLAY	1.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	0.4	0.2	0	4.6	4.4	0.2	4.9	4.9	4.9	0	3.9	0
FF	1.0	3.9	4.9	4.9	4.9	4.9	4.9	4.9	0.4	0.1	0	4.6	4.5	0.2	4.9	4.9	4.9	0	3.9	0
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	3.9	0	0	0	3.3	4.6	4.6	4.7	2.0	4.0	4.9	4.9	4.9	0	0	0	4.9	4.9	0	0
PLAY	3.8	0	0	0	3.3	4.6	4.6	4.7	2.0	4.0	4.9	4.9	4.9	0	0	0	0.1	4.9	0	0
FF	3.9	0	0	0	3.3	4.6	4.6	4.7	2.0	4.0	4.9	4.9	4.9	0	0	0	4.9	4.9	0	0
REF. NO.	IC6001										IC6002									
MODE	81	82	83	84							1	2	3							
STOP	0	0	4.9	4.9							4.6	4.9	0							
PLAY	0	0	4.9	4.9							4.6	4.9	0							
FF	0	0	4.9	4.9							5.0	5.0	0							
REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	5.1	0	5.1	0	5.1	5.1	0	4.9	4.9	0	5.1	0	0	5.1						
PLAY	2.7	0	5.1	2.4	3.6	5.1	0	4.9	4.9	0	5.1	0	0	5.1						
FF	2.4	0	5.1	2.2	2.8	5.1	0	4.9	4.9	0	5.1	0	0	5.1						
REF. NO.	IC6004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	4.8	4.8	5.1	0.2	2.0	3.5	5.0	3.5	4.5	2.6	1.4	0	0	0						
PLAY	4.8	4.8	5.1	3.0	2.0	3.5	4.7	3.5	4.9	2.9	2.0	0	4.8	4.8						
FF	2.6	2.6	5.1	1.5	1.7	3.5	4.7	3.5	4.8	1.4	1.7	0	2.5	2.6						
REF. NO.	IC6005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	7.8	8.1	8.1	1.2	5.9	5.9	0	5.9	8.2	8.2	8.2	0	7.0	4.9	4.9	0				
PLAY	7.8	8.1	8.1	1.2	5.9	5.9	0	5.9	8.3	8.3	8.3	0	7.0	4.9	4.9	0				
FF	7.8	8.1	8.1	1.2	5.9	5.9	0	5.9	8.3	8.3	8.3	0	7.0	4.9	4.9	0				
REF. NO.	IC6006																			
MODE	1	2	3	4	5	6	7	8												
STOP	5.1	0	0.7	0	0	2.9	0.1	5.1												
PLAY	3.0	1.1	0.7	0	1.0	2.9	0.1	5.1												
FF	5.1	0	0.7	0	0	2.9	0.1	5.1												
REF. NO.	IC6007																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0.1	4.9	0.5	0	4.9	4.9	4.9	0	1.0	4.9	3.9	1.0	1.0	0	4.9	4.9				
PLAY	0.1	4.9	0.5	4.9	4.9	4.9	4.9	0	1.0	4.9	4.9	1.0	0	3.8	0	4.9				
FF	0.1	4.9	0.5	0	4.9	4.9	4.9	0	1.2	4.9	3.6	1.0	1.0	3.9	4.9	4.9				

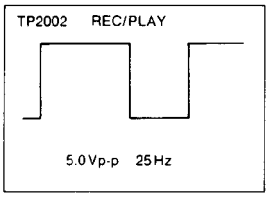
SYSTEM CONTROL TRs DC VOLTAGE CHART (S-VHS: SP MODE)

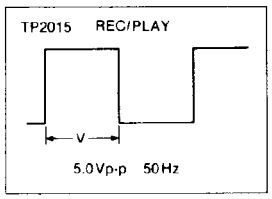
REF. NO.	Q6002			Q6003			Q6004			Q6006			Q6007			Q6008		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	12.2	11.5	12.2	0.2	12.2	12.2	0	12.2	13.5	13.5	5.3	0	13.5	0	0.6	13.5	0.4
PLAY	12.2	12.2	11.5	12.2	0.3	12.2	12.2	0	12.2	13.4	13.4	5.2	0	13.4	0	0.6	13.4	0.4
FF	12.2	12.2	11.5	12.2	0.2	12.2	12.2	0	12.2	13.5	13.5	5.3	0	13.5	0	0.6	13.5	0.6
REF. NO.	Q6011			Q6012			Q6013			Q6014			Q6015			Q6017		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	8.2	13.5	9.4	4.9	5.0	5.7	0	0	0.7	0	0	0.6	−0.1	4.9	0	0	0.1	0.7
PLAY	8.3	13.4	9.4	4.9	5.0	5.7	0	0	0.7	0	1.2	0.4	−0.1	4.9	0	0	0.1	0.7
FF	8.3	13.5	9.4	4.9	5.0	5.7	0	0	0.7	0	0	0.4	−0.1	4.9	0	0	0.1	0.7
REF. NO.	QR6003			QR6004			QR6005			QR6006			QR6007			QR6008		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	12.2	0	0	12.2	0	0	3.4	0	0	3.4	0	0	5.1	0.6	0	3.6	0
PLAY	0	12.2	0	0	12.2	0	0	3.4	0	0	3.4	0	0	5.0	0.6	0	3.5	0
FF	0	12.2	0	0	12.2	0	0	3.4	0	0	3.4	0	0	5.1	0.6	0	3.6	0
REF. NO.	QR6009			QR6010			QR6011			QR6013			QR6014			QR6015		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	3.3	0	3.3	0.6	0	3.6	0	5.1	0	4.9	5.1	0.5	4.4	0	0.1	4.0
PLAY	0	0	3.3	0	3.3	0.6	0	3.6	0	5.1	0	4.9	5.1	0.5	4.4	0	0.1	4.0
FF	0	0	3.3	0	3.3	0.6	0	3.6	0	5.1	0	4.9	5.1	0.5	4.4	0	0.1	4.0
REF. NO.	QR6016			QR6017			QR6018			QR6019			QR6020			QR6021		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0.4	0.1	0	4.5	0.3	5.1	5.0	0	0	1.0	3.9	0	0	4.9	5.1	1.1	4.9
PLAY	0	0.4	0.2	0	4.5	0.2	5.1	5.0	0	0	1.0	3.8	0	1.0	0.1	5.1	1.0	4.9
FF	0	0.4	0.1	0	4.5	0.2	5.1	5.0	0	0	1.2	3.9	0	0	4.9	5.1	5.0	0
REF. NO.	QR6022			QR6024			QR6025			QR6027			QR6028			QR6029		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	1.1	0	4.6	4.9	0	4.9	0	4.9	0.1	0	2.5	0	0	3.4	0	0	3.4	0
PLAY	1.0	0	4.6	4.9	0	4.9	0	4.9	0.1	0	2.6	0	0	3.4	0	0	3.5	0
FF	5.0	0	5.0	4.9	0	4.9	0	4.9	0.1	0	2.5	0	0	3.4	0	0	3.5	0
REF. NO.	QR6030			QR6031														
MODE	E	C	B	E	C	B												
STOP	0	0.2	4.5	3.9	4.7	0.2												
PLAY	0	0.2	4.6	3.8	4.7	0.2												
FF	0	0.3	4.5	3.9	4.7	0.2												

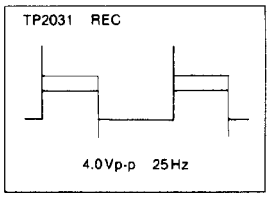
3-10. SERVO SCHEMATIC DIAGRAM

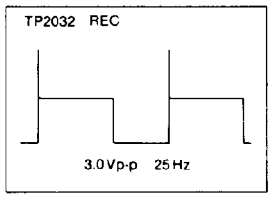


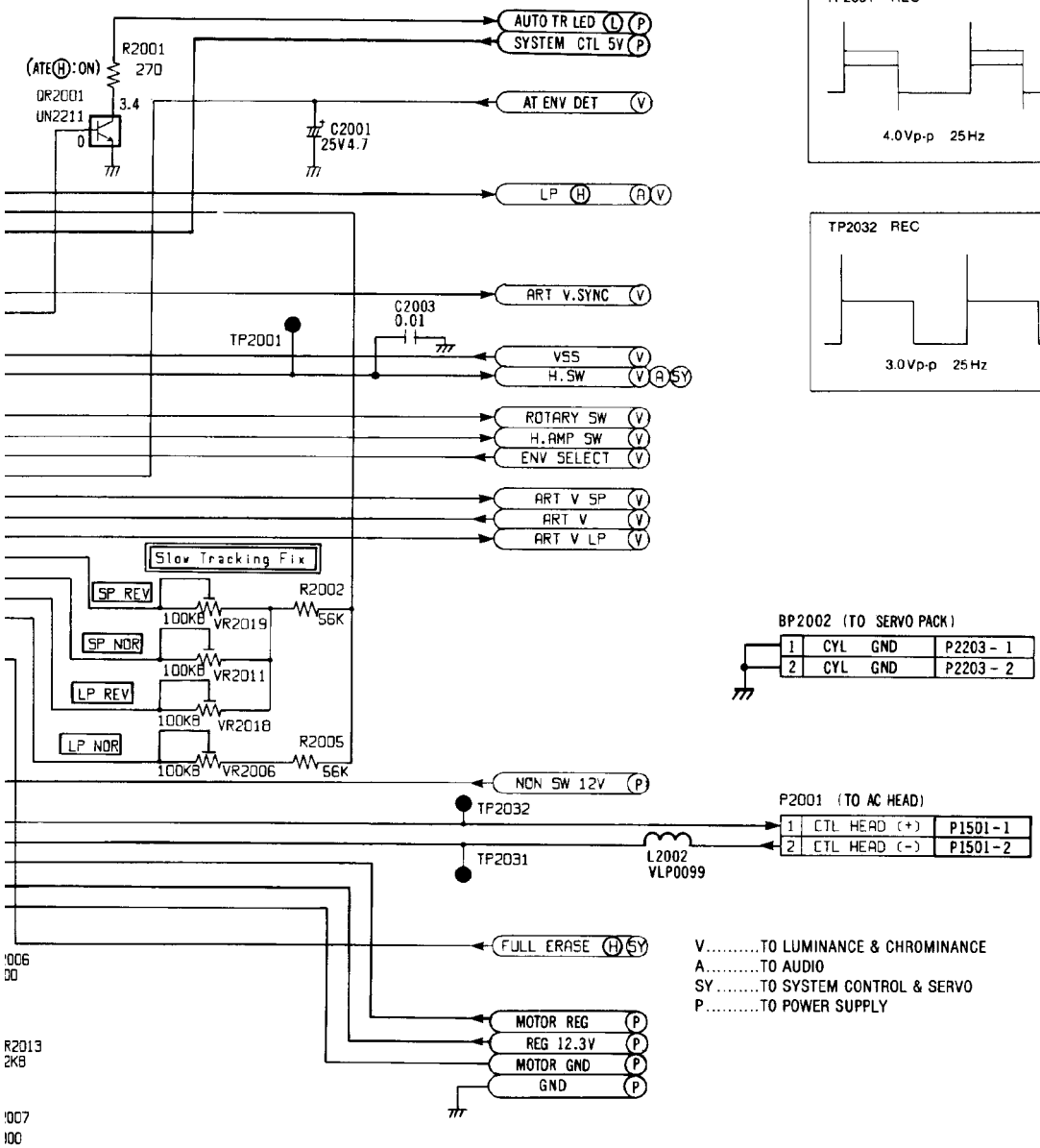












BP2002 (TO SERVO PACK)

1	CYL	GND	P2203 - 1
2	CYL	GND	P2203 - 2

P2001 (TO AC HEAD)

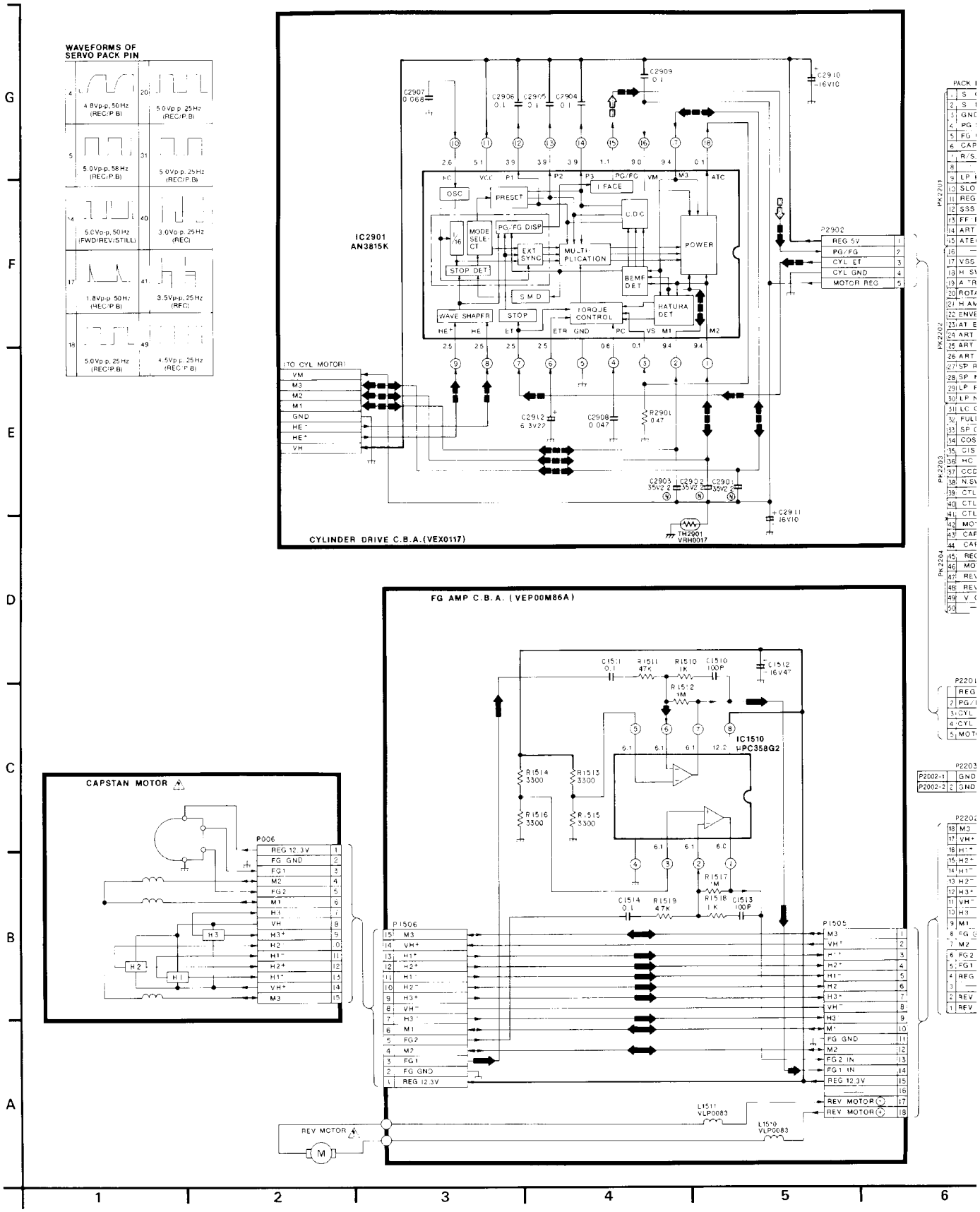
1	CTL HEAD (+)		P1501-1
2	CTL HEAD (-)		P1501-2

V.....TO LUMINANCE & CHROMINANCE
A.....TO AUDIO
SY.....TO SYSTEM CONTROL & SERVO
P.....TO POWER SUPPLY

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

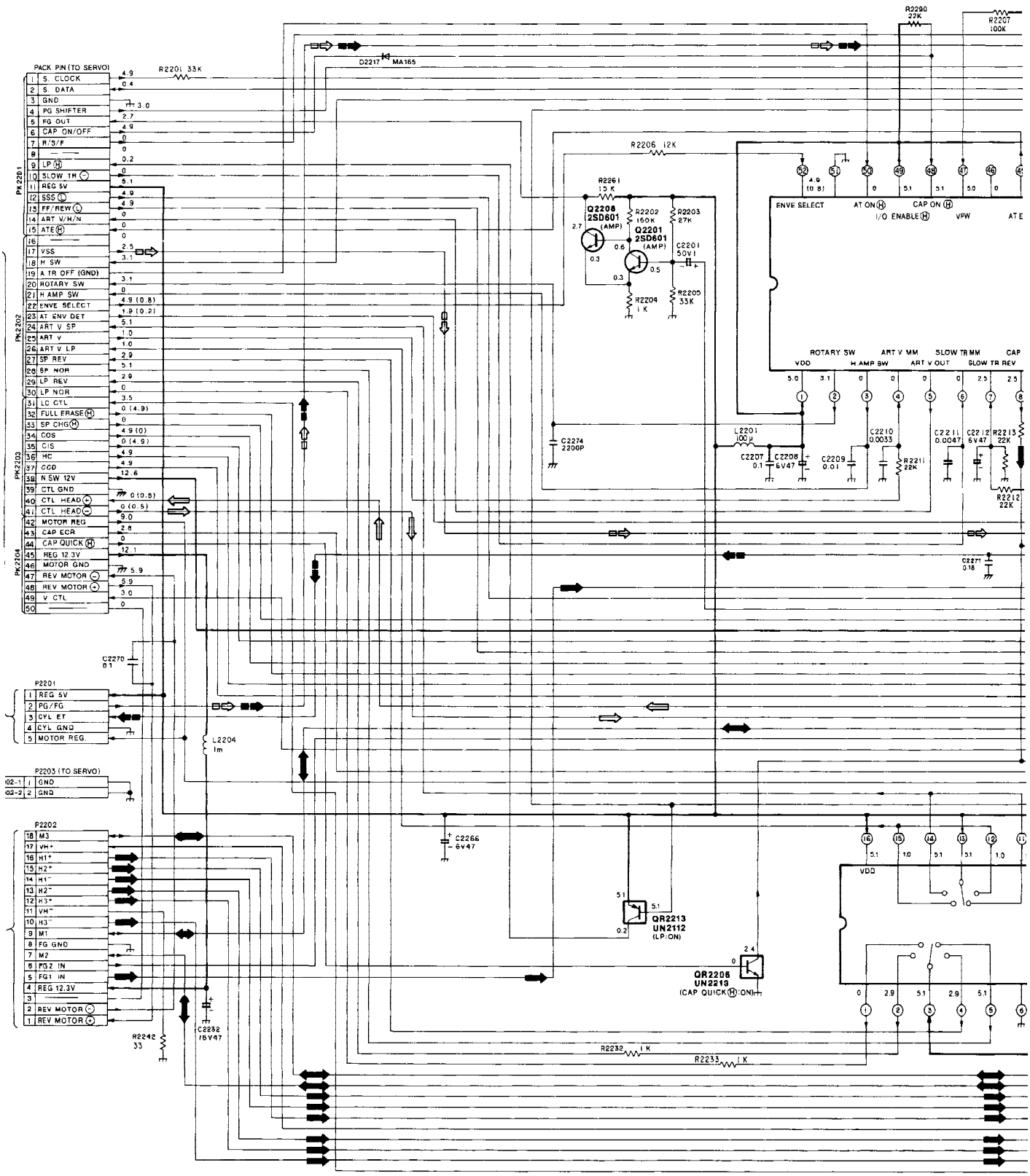
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

3-12. SERVO PACK SCHEMATIC DIAGRAM



CAPSTAN SERVO SPEED LOOP

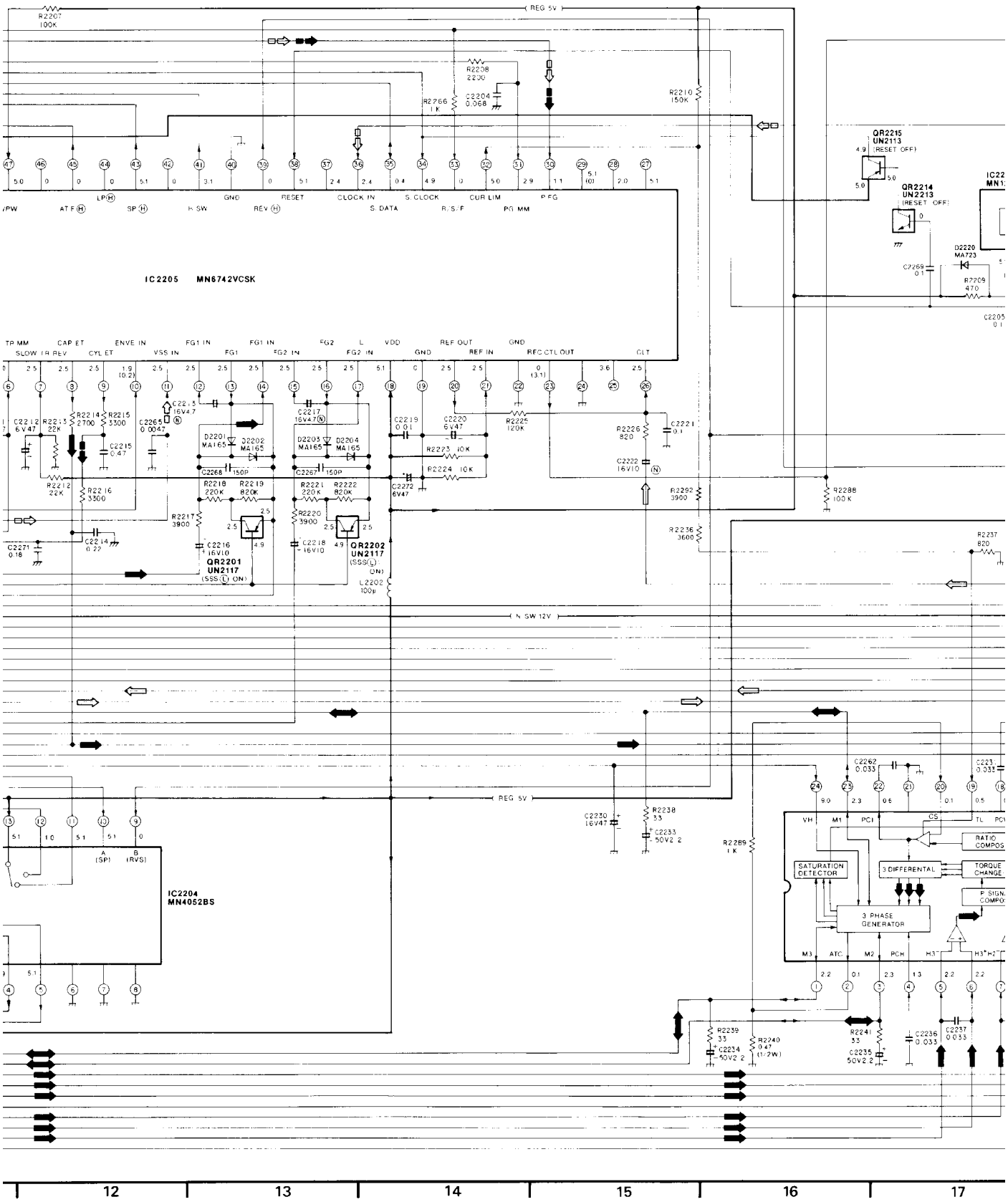
CAPSTAN SERVO PHASE LOOP



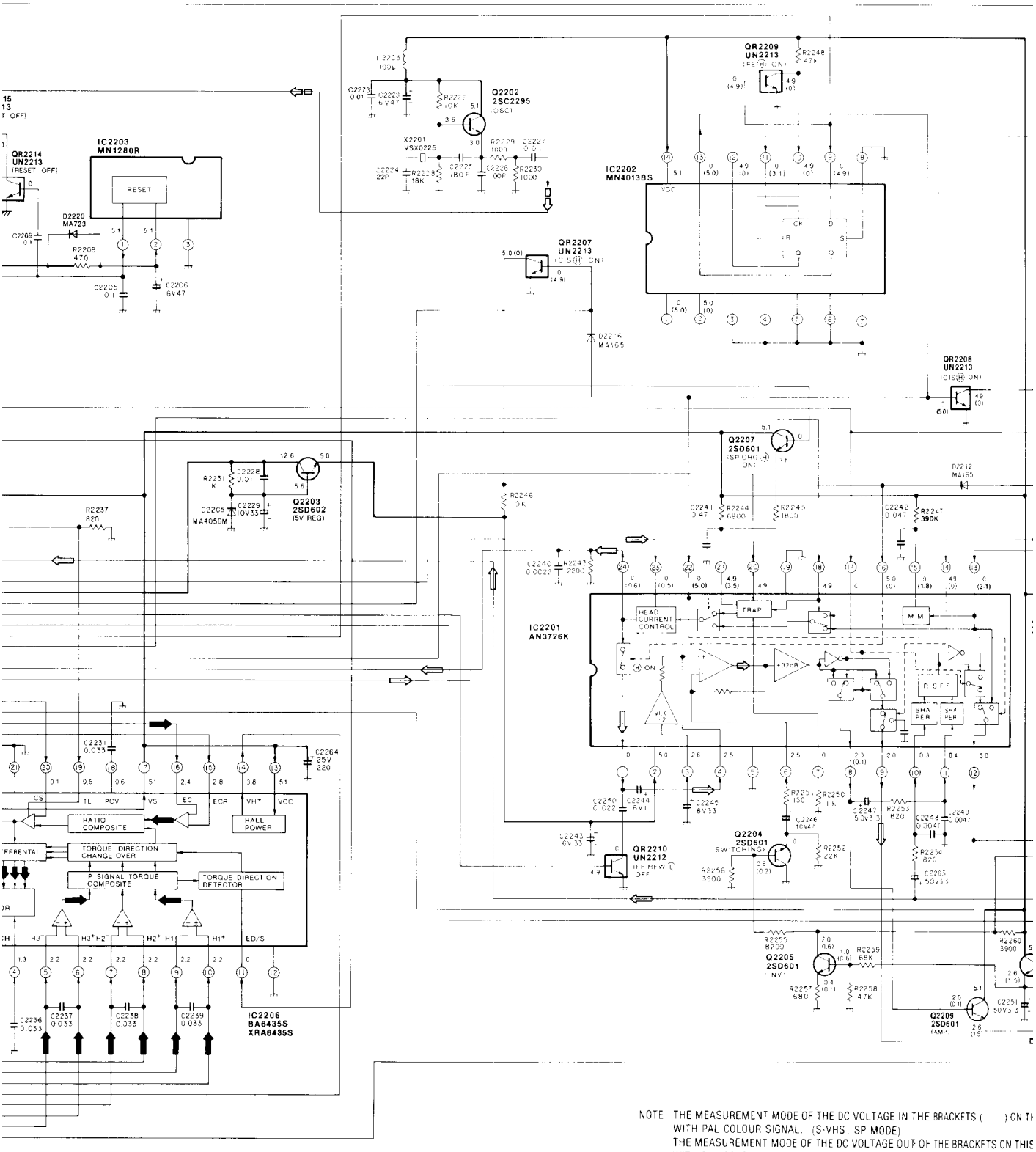
6 | 7 | 8 | 9 | 10 | 11

CYLINDER SERVO SPEED LOOP

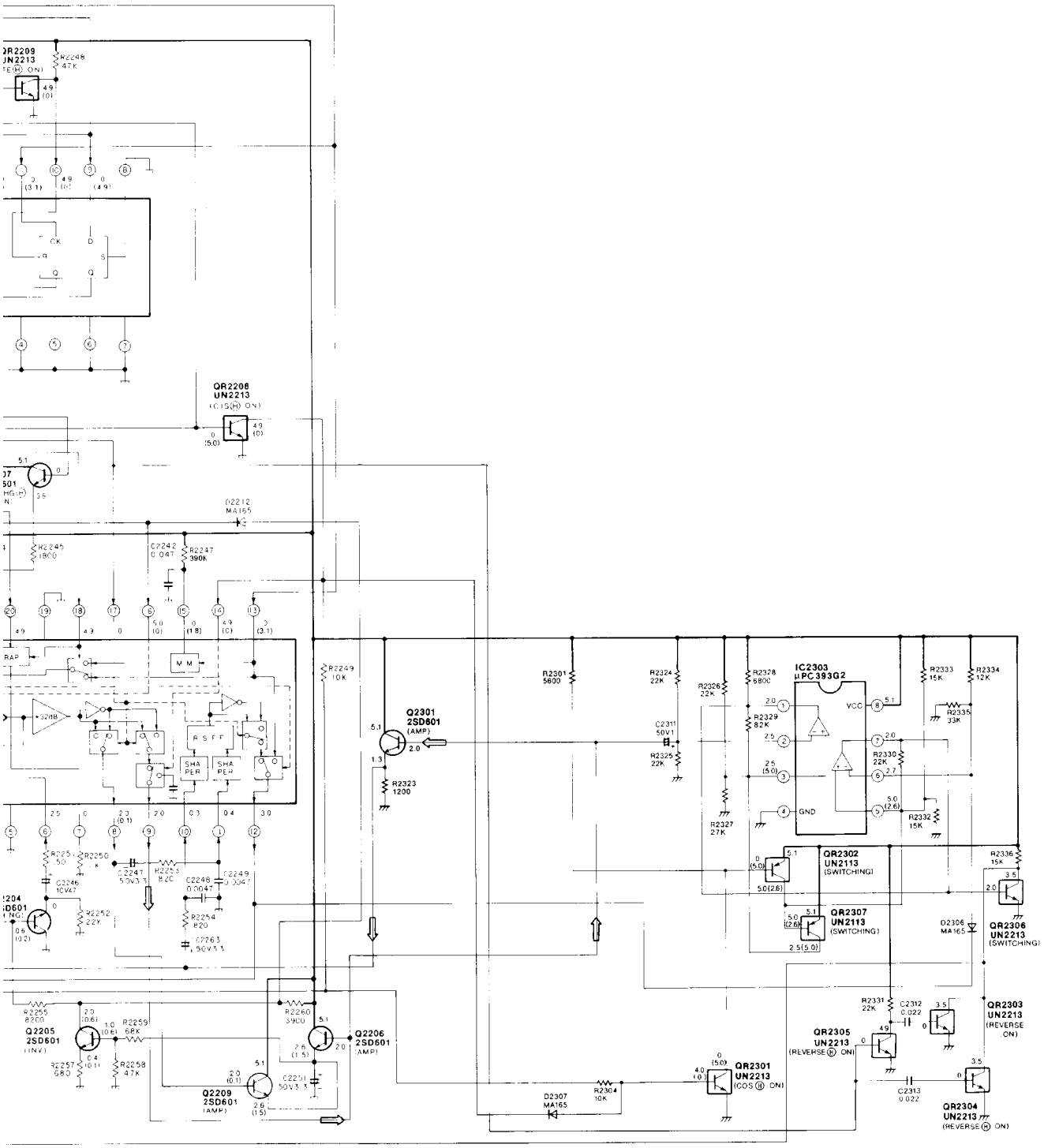
CYLINDER SERVO PHASE LOOP



12 13 14 15 16 17



NOTE THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON TH
WITH PAL COLOUR SIGNAL. (S-VHS SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS
WITH PAL COLOUR SIGNAL. (S-VHS SP MODE)



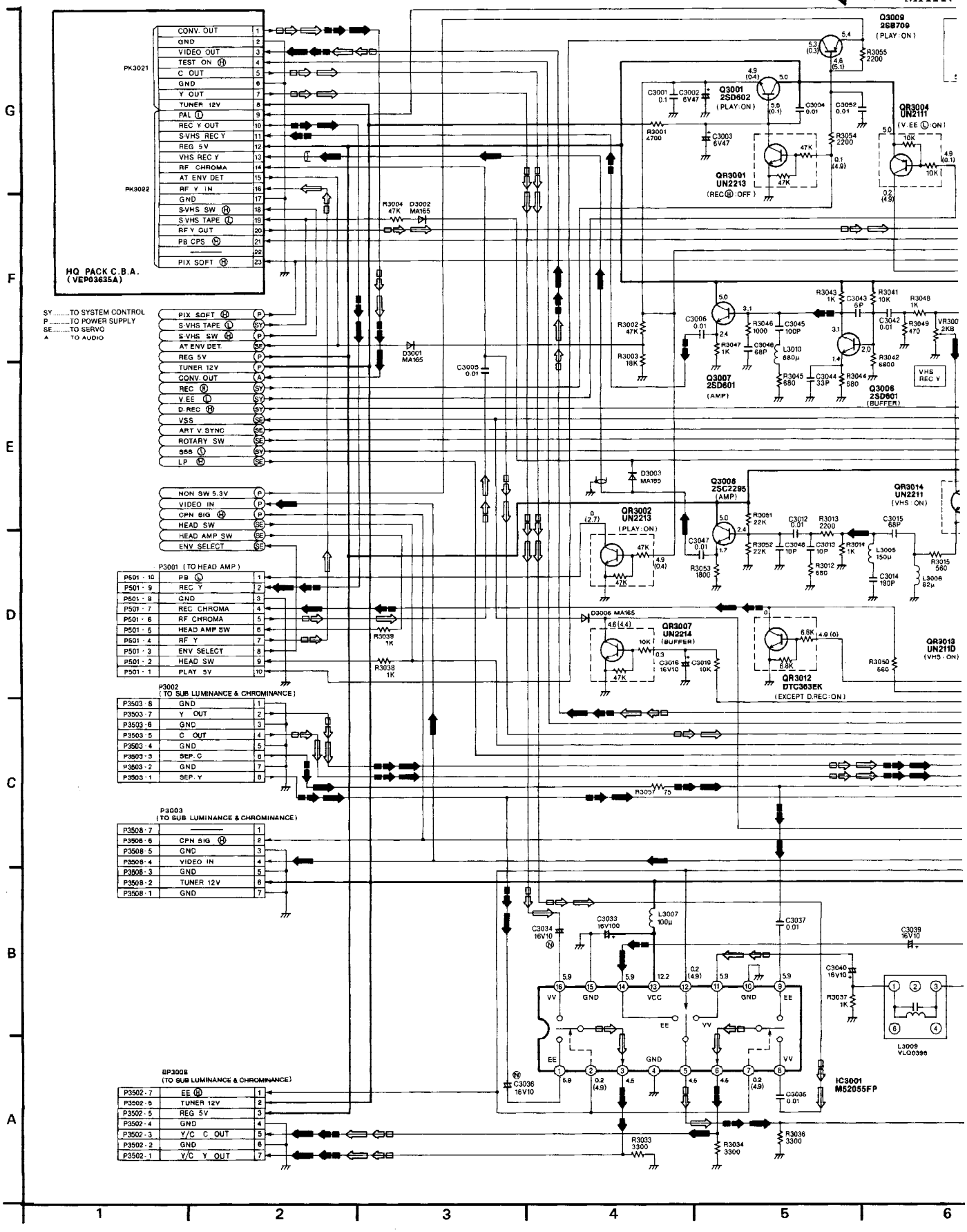
MENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE
OUR SIGNAL. (S-VHS: SP MODE)
MENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
OUR SIGNAL. (S-VHS: SP MODE)

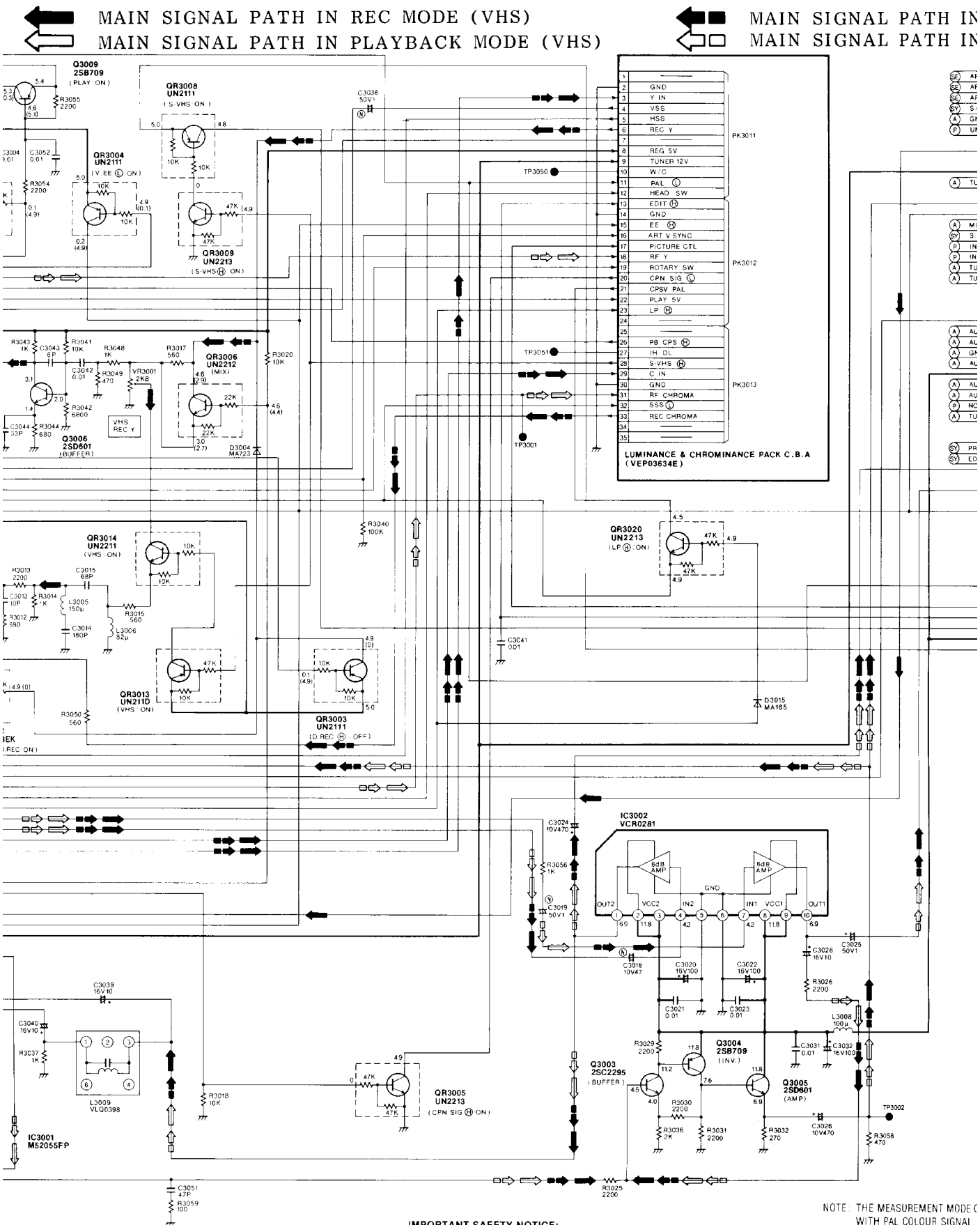
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

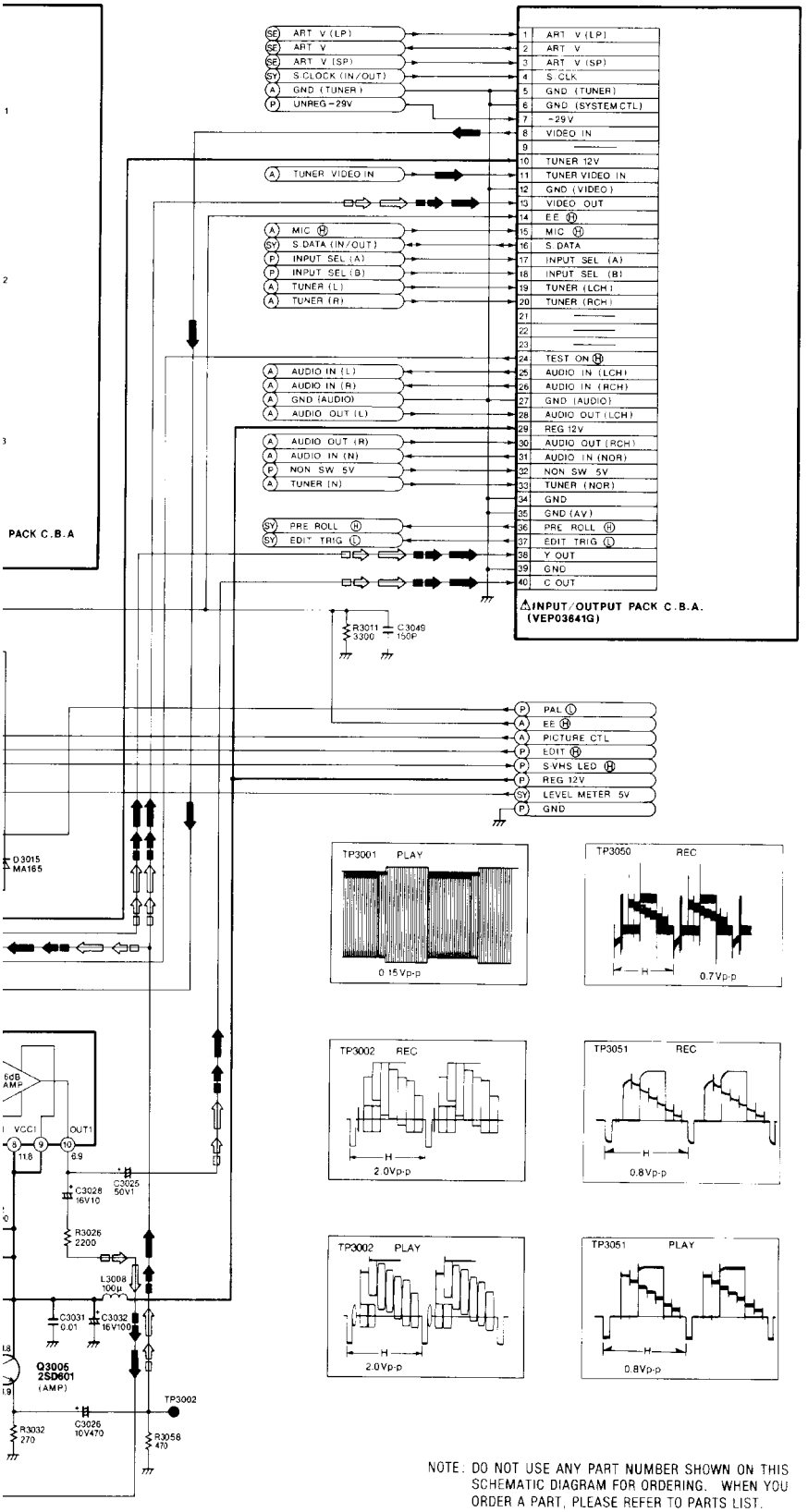
3-13. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

MAIN
MAIN




MAIN SIGNAL PATH IN REC MODE (VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
MAIN SIGNAL PATH IN
MAIN SIGNAL PATH IN
Q3009 2SB709 (PLAY ON)
QR3008 UN2111 (S-VHS ON)
QR3004 UN2111 (V.EE Ⓛ ON)
QR3009 UN2213 (S-VHS Ⓗ ON)
QR3006 UN2212 (MIX)
Q3006 2SD601 (BUFFER)
VHS REC Y
D3004 MA723
QR3014 UN2211 (VHS ON)
QR3013 UN211D (VHS ON)
QR3003 UN2111 (D.REC Ⓗ OFF)
QR3020 UN2213 (LP Ⓗ ON)
D3015 MA165
C3041 0.01
R3040 100K
C3038 50V1
TP3050
TP3051
TP3001
PK3011
PK3012
PK3013
GND
Y IN
VSS
HSS
REC Y
REG 5V
TUNER 12V
W/C
PAL Ⓛ
HEAD SW
EDIT Ⓗ
GND
EE Ⓗ
ART V SYNC
PICTURE CTL
RF Y
ROTARY SW
CPN SIG Ⓛ
CPSV PAL
PLAY 5V
LP Ⓗ
PB CPS Ⓗ
IH DL
S-VHS Ⓗ
C IN
GND
RF CHROMA
SSS Ⓛ
REC CHROMA
LUMINANCE & CHROMINANCE PACK C.B.A (VEP03634E)
IC3002 VCR0281
6dB AMP
6dB AMP
GND
OUT2
VCC2
IN2
IN1
VCC1
OUT1
C3024 10V470
R3056 1K
C3019 50V1
C3018 10V47
C3020 16V100
C3022 16V100
C3021 0.01
C3023 0.01
C3025 50V1
C3026 16V10
R3026 2200
L3008 100µ
C3031 0.01
C3032 16V100
R3029 2200
Q3004 2SB709 (INV.)
Q3003 2SC2295 (BUFFER)
Q3005 2SD601 (AMP)
R3030 2200
R3036 2K
R3031 2200
R3032 270
C3026 10V470
R3058 470
TP3002
R3025 2200
C3039 16V10
C3040 16V10
R3037 1K
L3009 VLQ0398
IC3001 M52055FP
R3018 10K
QR3005 UN2213 (CPN SIG Ⓗ ON)
C3051 47P
R3059 100
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE
NOTE: THE MEASUREMENT MODE (
WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE (
WITH PAL COLOUR SIGNAL.
6
7
8
9
10
1

MAIN SIGNAL PATH IN REC MODE (S-VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

CS FOR SAFETY.

10 | 11 | 12 | 13

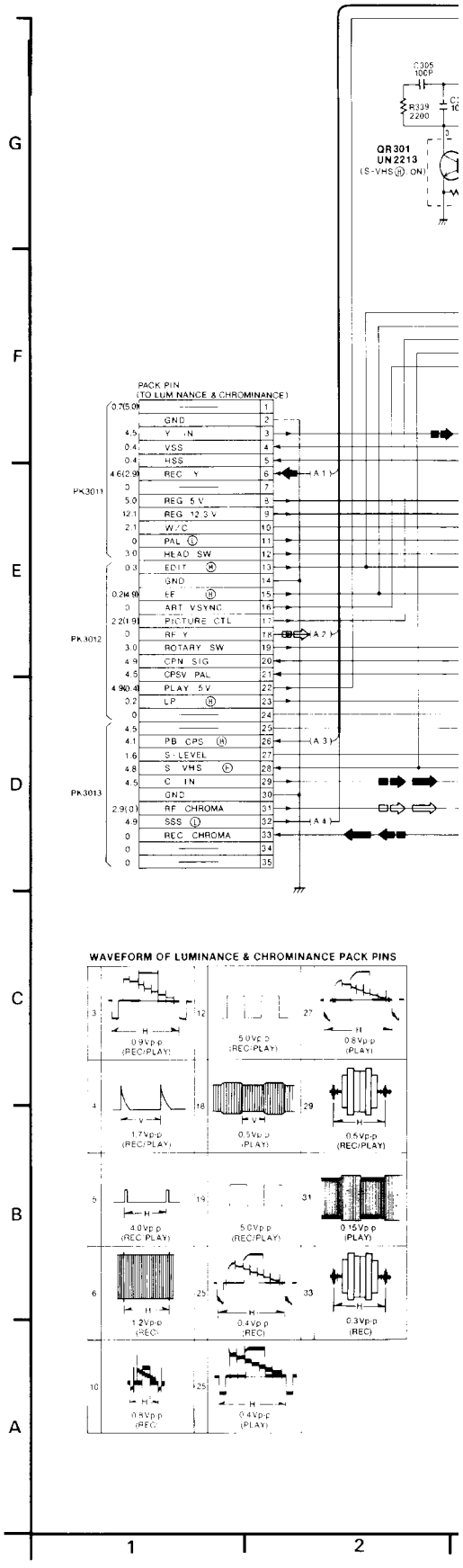
IC301 (VEFH07C)
(S-VHS: SP MODE)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	2.0Vp-p (REC/P.B)	20	0.8Vp-p (REC)
2	4.0Vp-p (REC/P.B)	22	1.5Vp-p (P.B)
3	1.7Vp-p (REC/P.B)	23	0.2Vp-p (REC/P.B)
4	0.9Vp-p (REC/P.B)	26	0.5Vp-p (P.B)
6	0.8Vp-p (REC)	28	1.5Vp-p (P.B)
6	1.1Vp-p (P.B)	30	0.3Vp-p (P.B)
8, 9	0.4Vp-p (REC/P.B)	32	0.8Vp-p (P.B)
13, 14	0.8Vp-p (REC/P.B)	33	0.5Vp-p (REC/P.B)
15, 16	0.8Vp-p (P.B)	34	0.18Vp-p (P.B)
19	5.0Vp-p (REC/P.B)	39, 41	0.8Vp-p (REC/P.B)

IC801 (VCR0284)
(S-VHS: SP MODE)

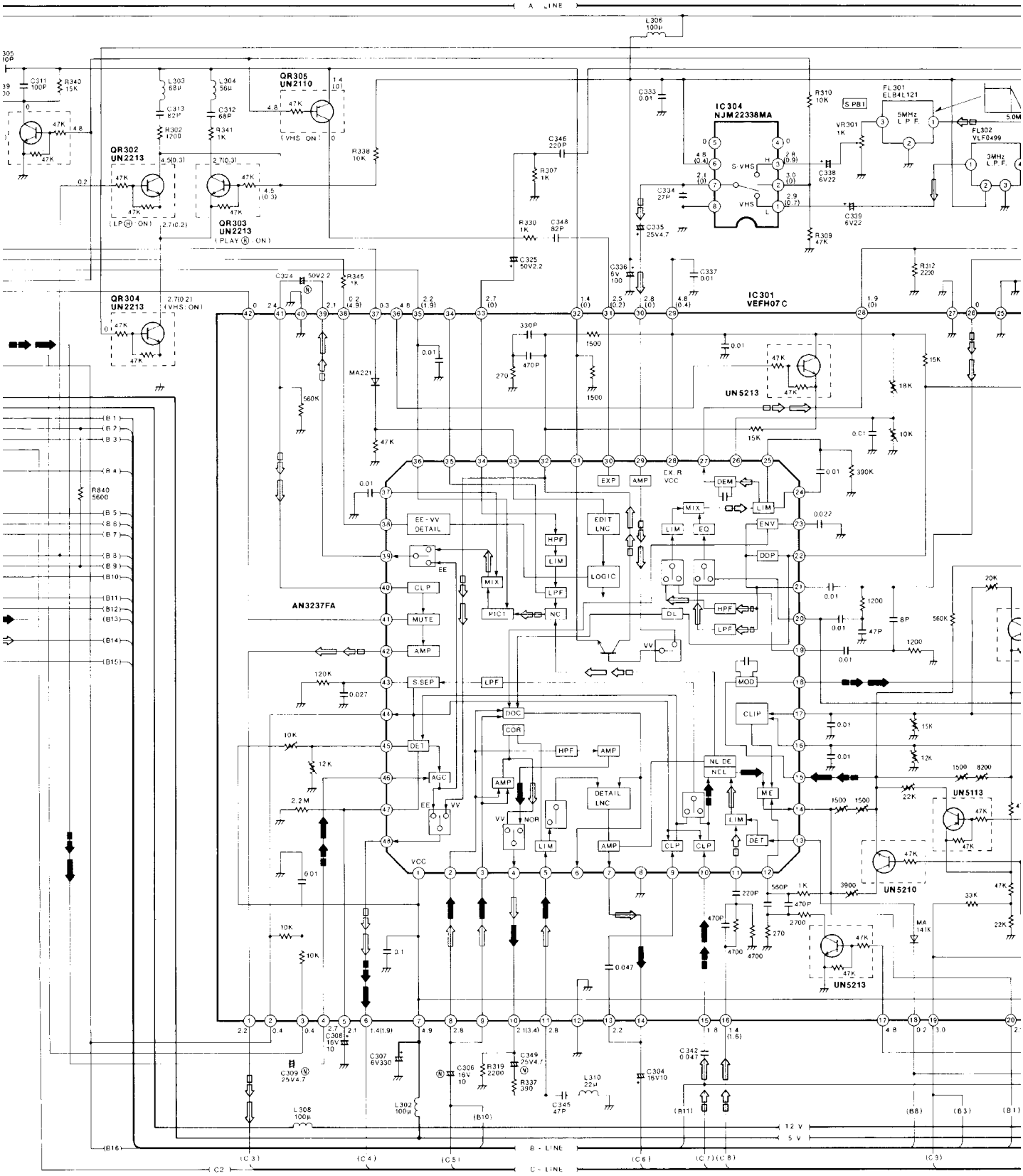
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	0.2Vp-p (REC/P.B)	18	0.2Vp-p (REC/P.B)
3	1.0Vp-p (REC) 0.6Vp-p (P.B)	21	0.25Vp-p (REC/P.B)
5	0.14Vp-p (REC/P.B)	31	0.7Vp-p (REC/P.B)
8	5.0Vp-p (REC/P.B)	32	1.0Vp-p (REC/P.B)
9	0.6Vp-p (REC) 0.8Vp-p (P.B)	34	0.7Vp-p (REC/P.B)
10	0.6Vp-p (REC) 0.4Vp-p (P.B)	36	0.2Vp-p (REC/P.B)
12	0.6Vp-p (REC) 0.15Vp-p (P.B)	38	5.0Vp-p (REC/P.B)
13	0.4Vp-p (REC) 0.1Vp-p (P.B)	39	4.0Vp-p (REC/P.B)
14	0.2Vp-p (P.B)	40	5.0Vp-p (REC/P.B)
15	0.4Vp-p (REC) 0.15Vp-p (P.B)	41	0.35Vp-p (P.B)
16	0.2Vp-p (REC) 0.1Vp-p (P.B)	42	1.6Vp-p (REC) 1.0Vp-p (P.B)
17	0.25Vp-p (REC/P.B)		

3-15. LUMINANCE & CHRO



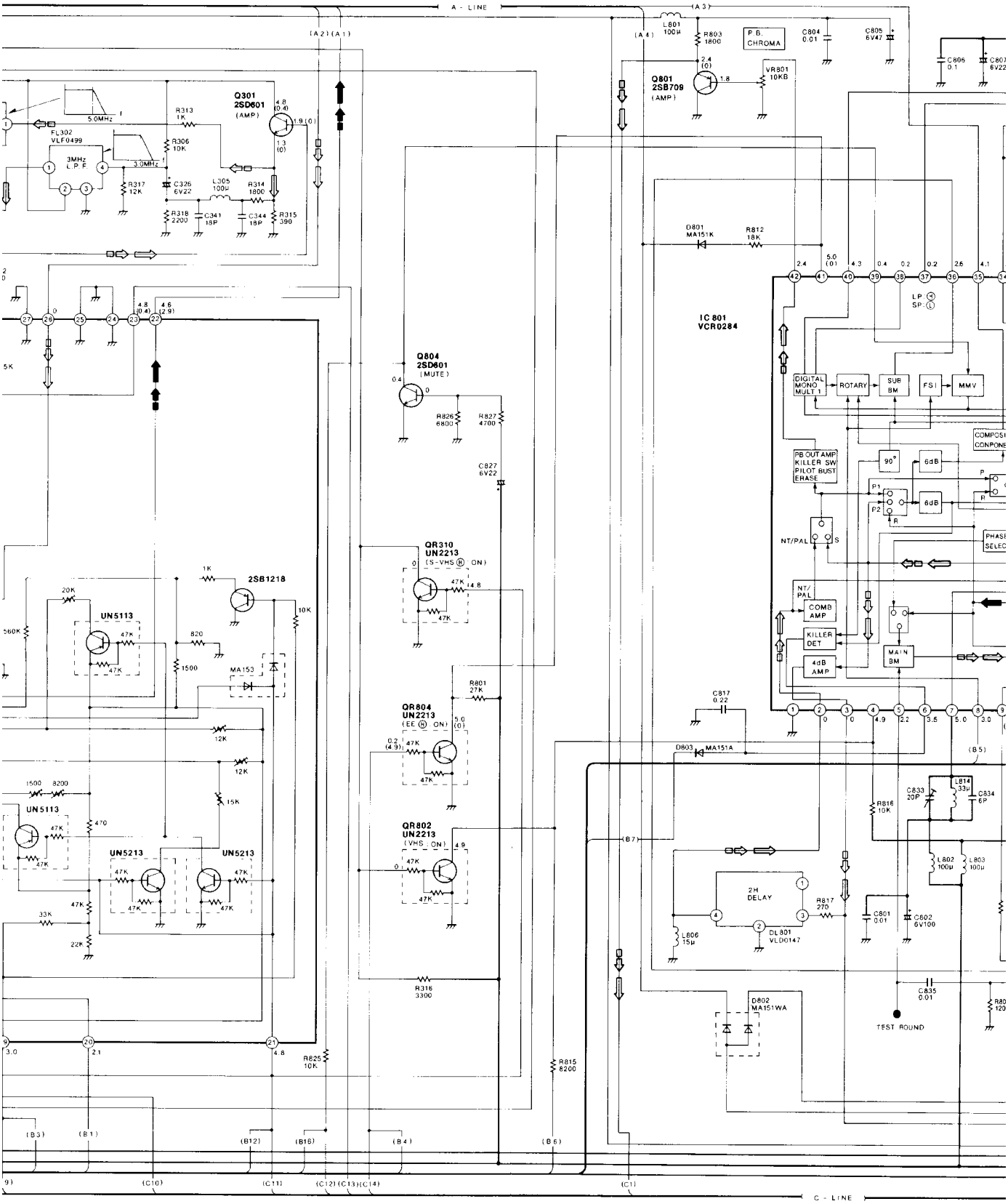
ROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE



3 4 5 6 7 8

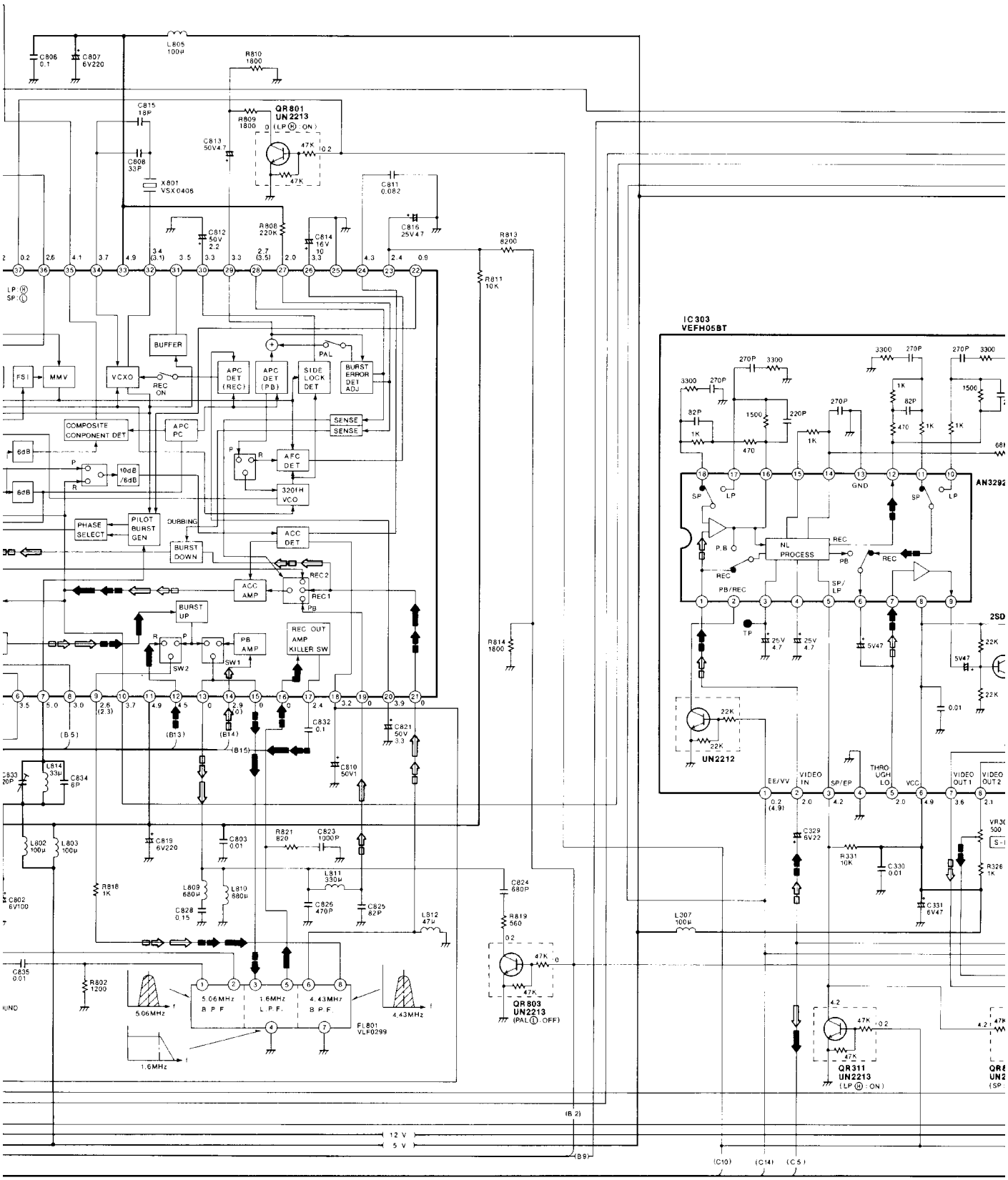
REC MODE (VHS) ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE (VHS) ⇦ M



8 | 9 | 10 | 11 | 12 | 13

MAIN SIGNAL PATH IN REC MODE (S-VHS)

MAIN SIGNAL PATH IN PLAYB

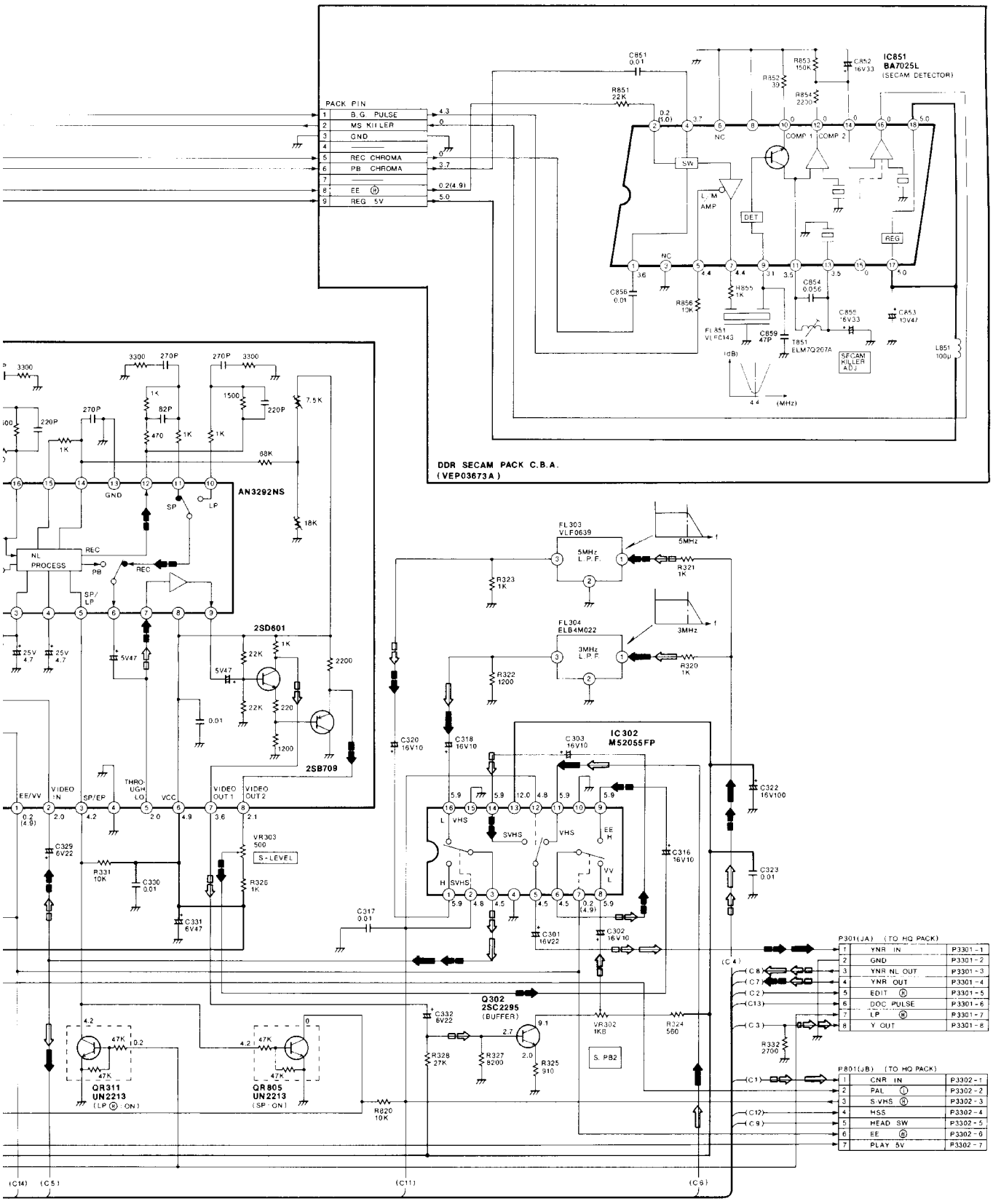


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BI WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

13 14 15 16 17 18 19

SIGNAL PATH IN PLAYBACK MODE (S-VHS)

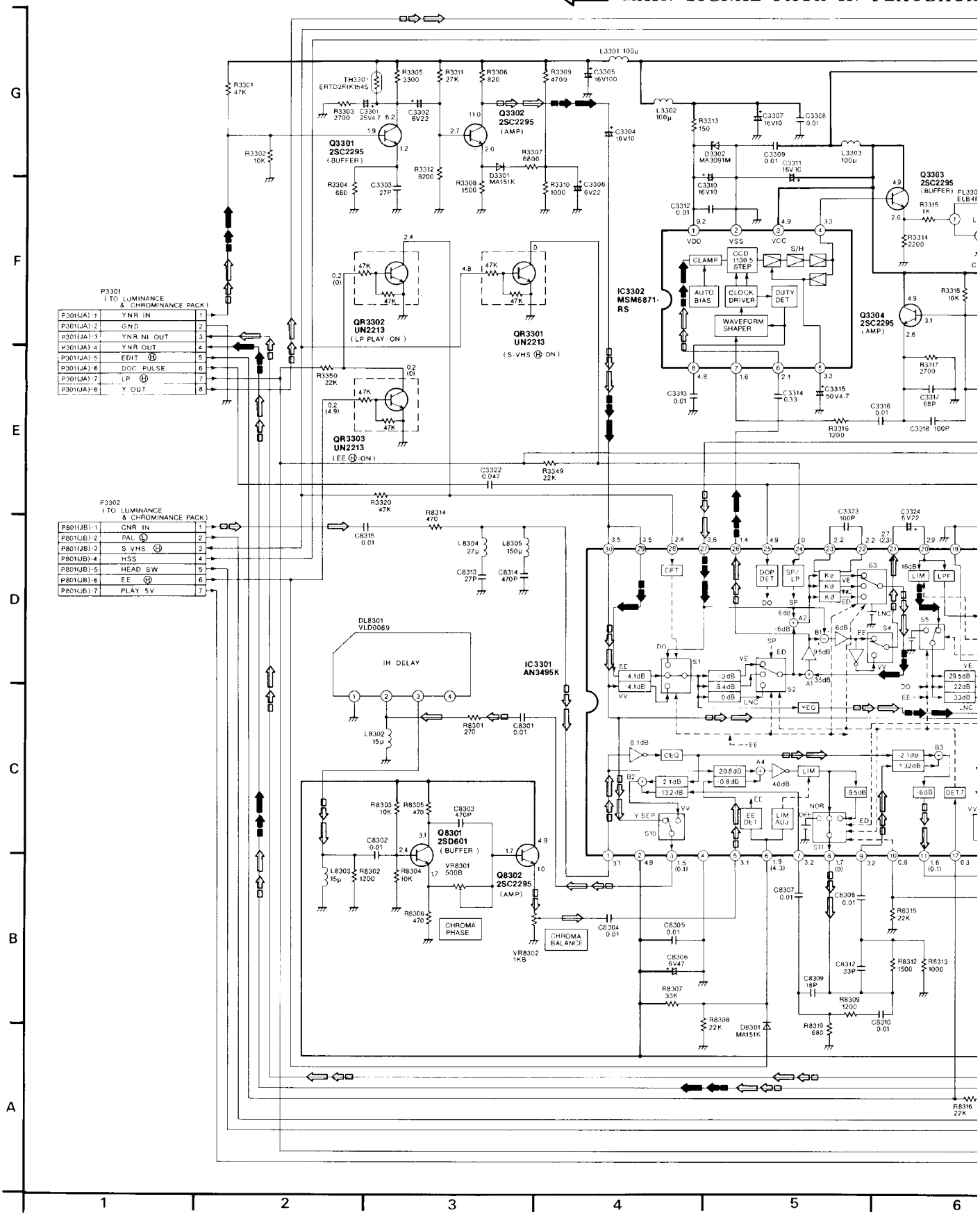


MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
H PAL COLOUR SIGNAL. (S-VHS: SP MODE)

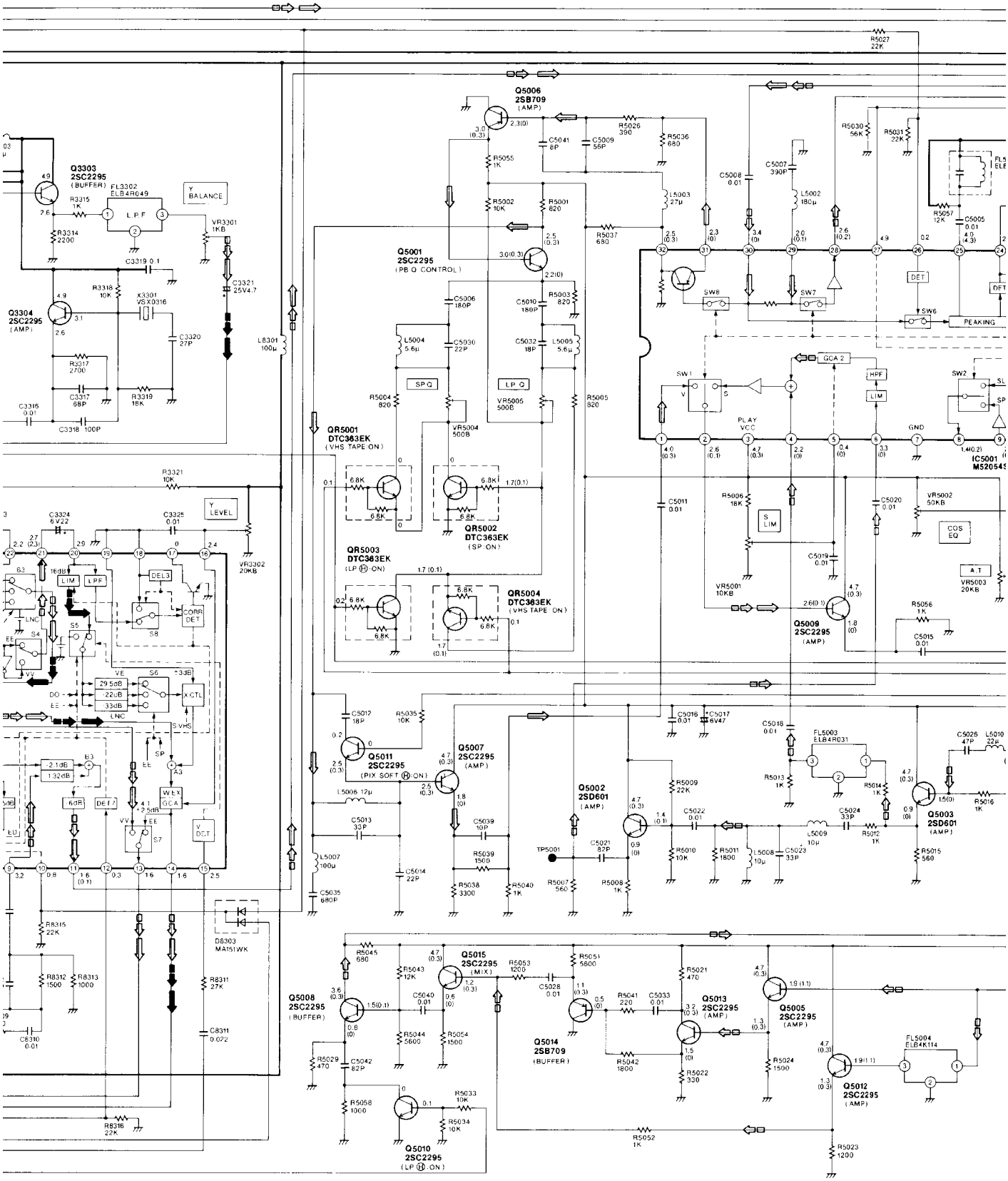
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-16. HQ PACK SCHEMATIC DIAGRAM

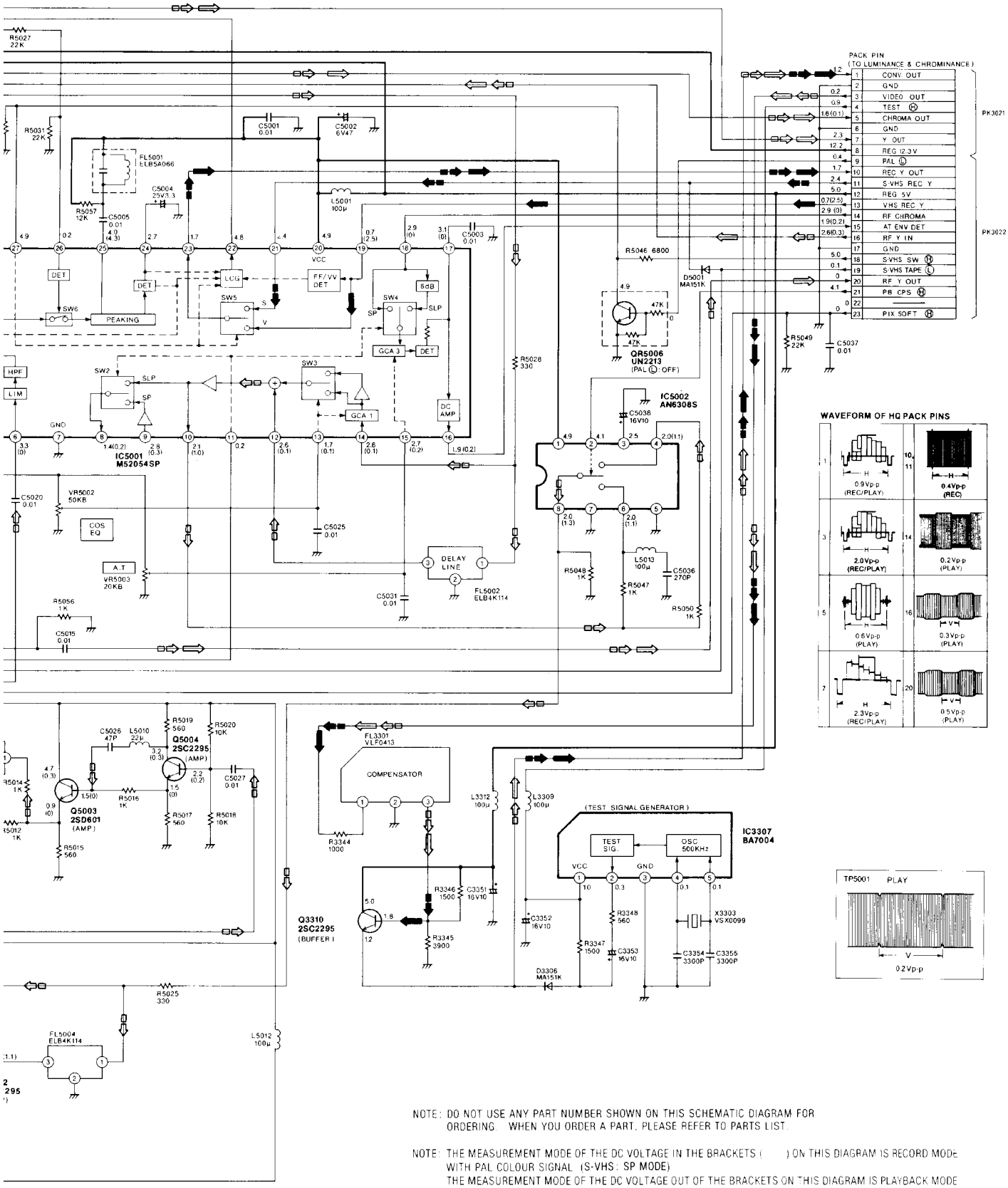
MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK



REC MODE (VHS)
PLAYBACK MODE (VHS)
MAIN SIGNAL PATH IN REC MODE (S-VHS)
MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)



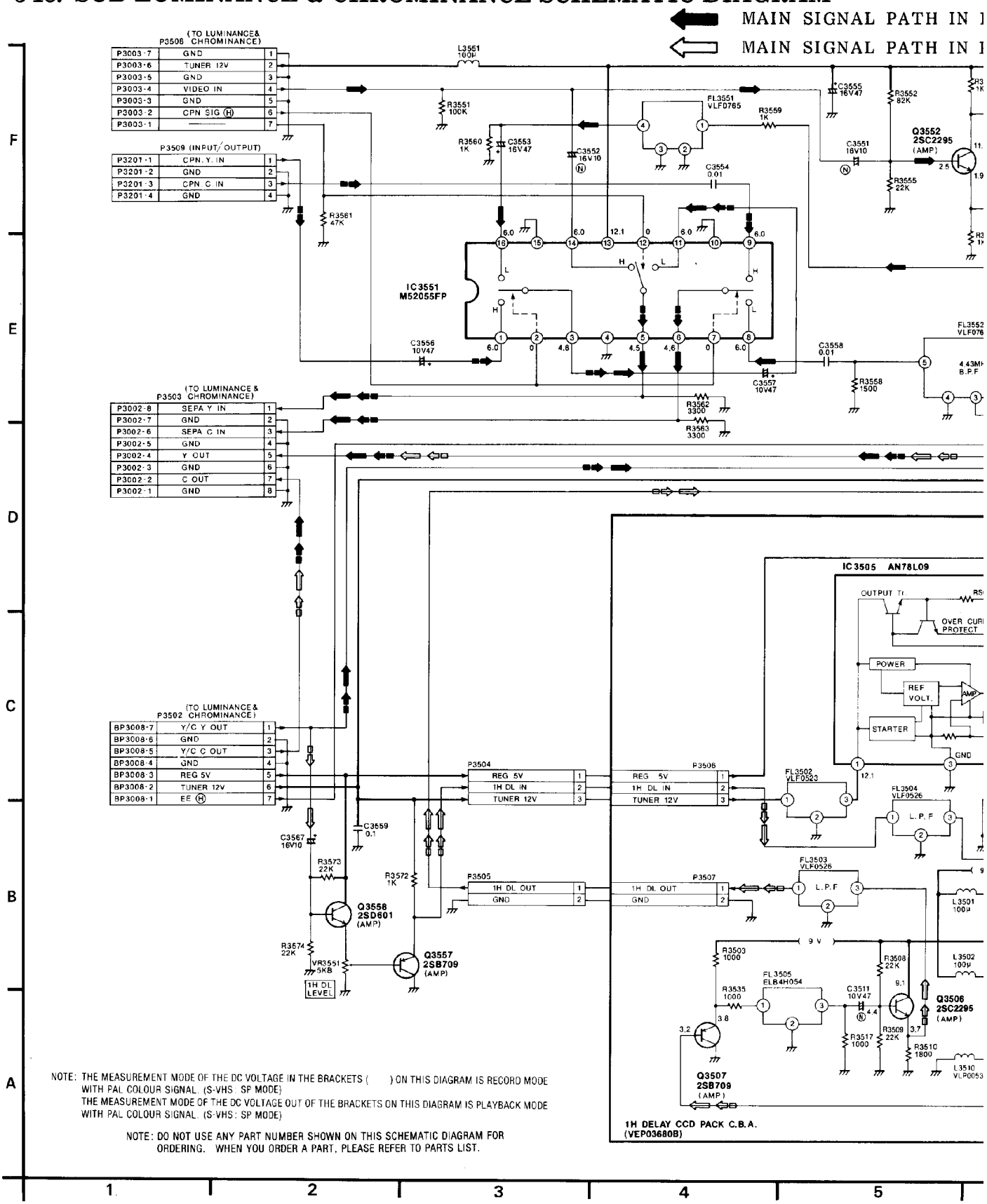
VHS)



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

3-18. SUB LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

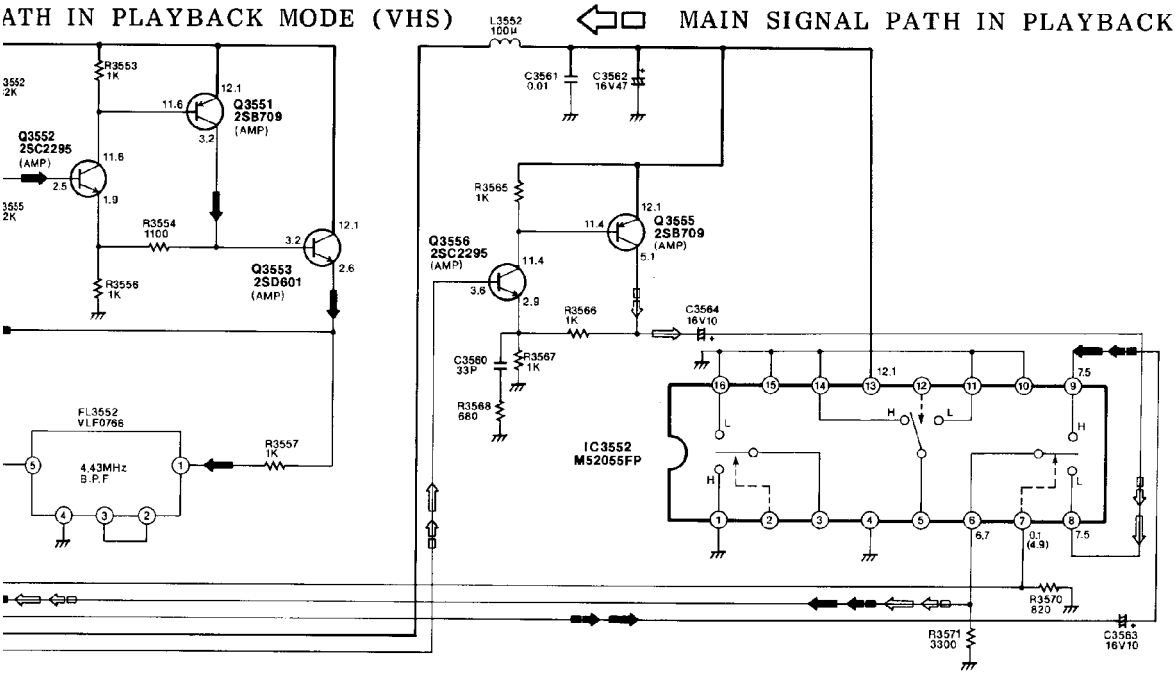
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

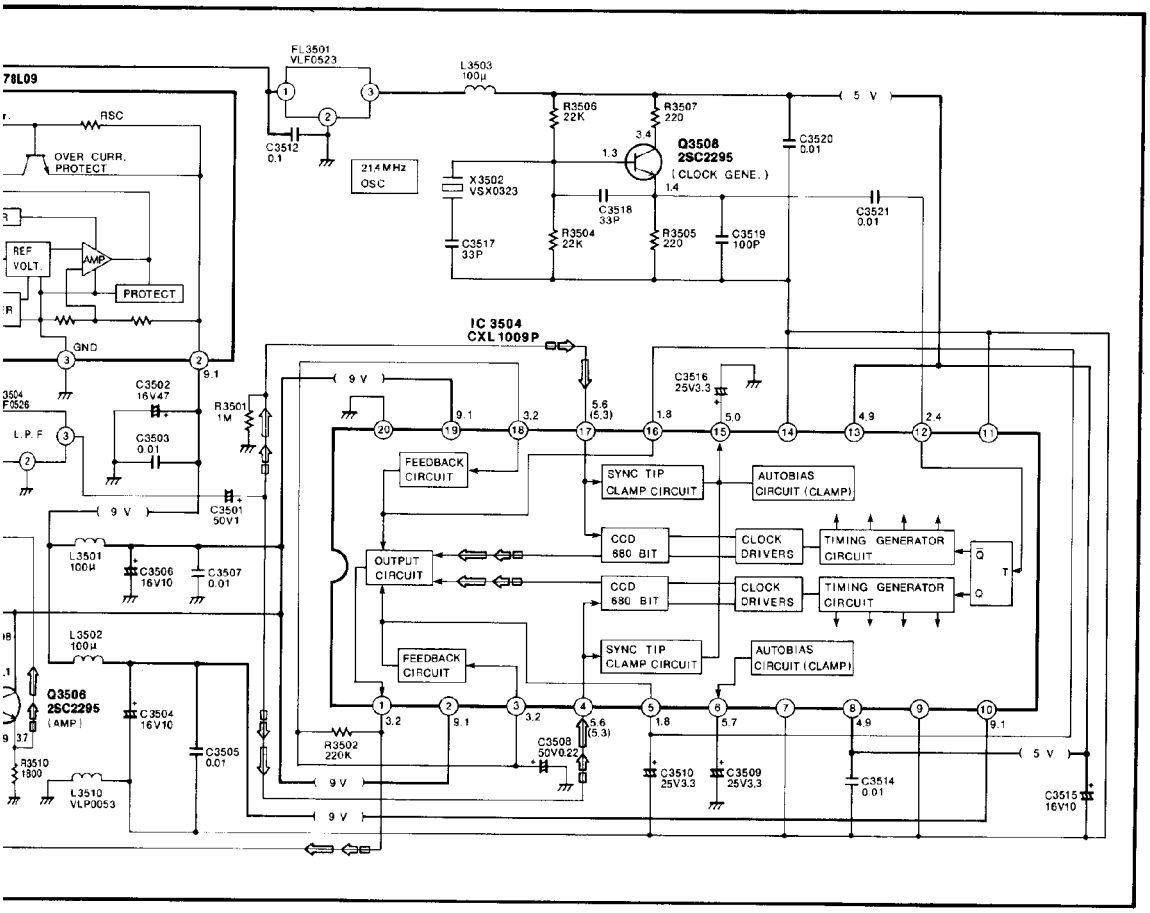
ATH IN REC MODE (VHS)

ATH IN PLAYBACK MODE (VHS)

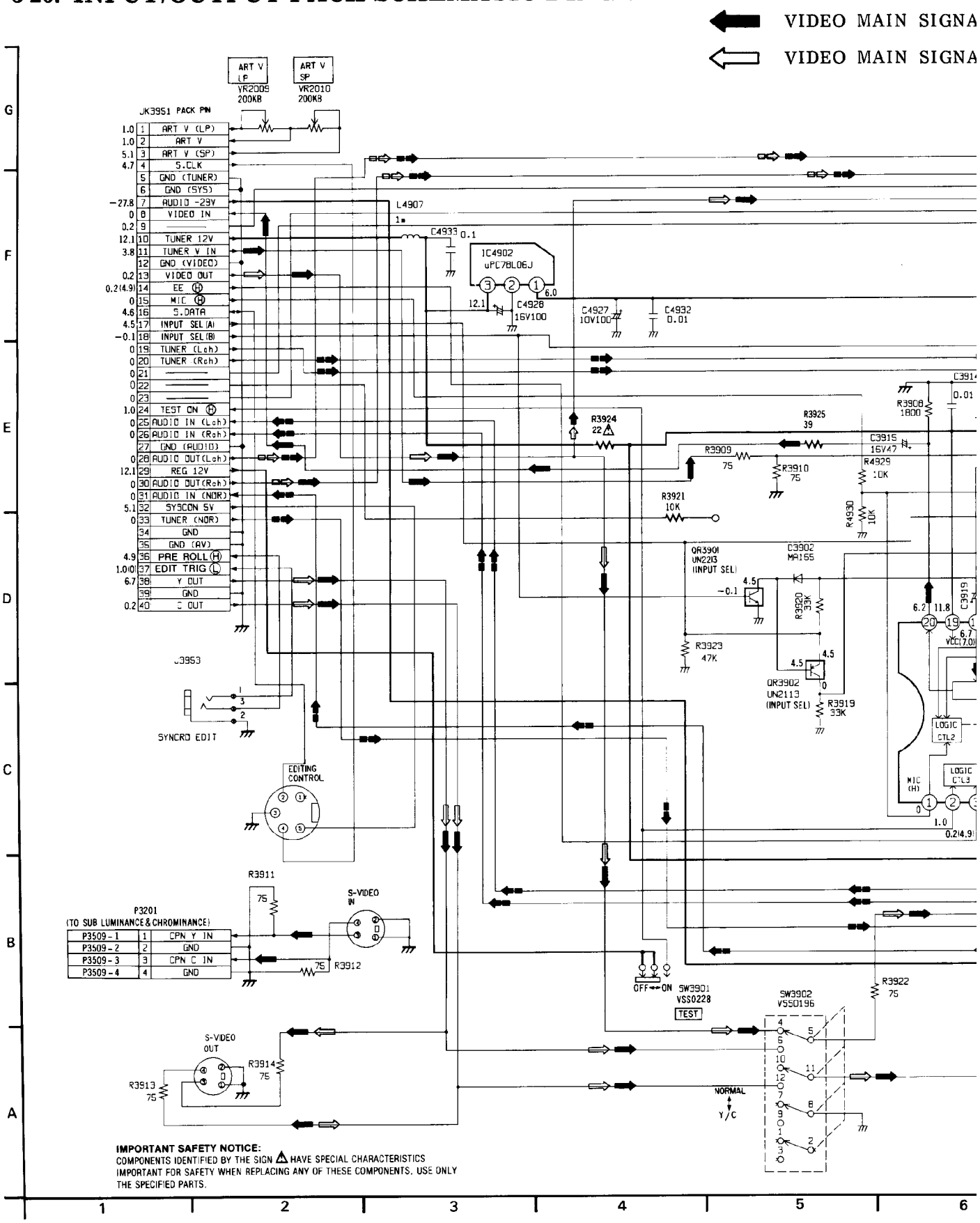
MAIN SIGNAL PATH IN REC MODE (S-VHS)

MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)





3-20. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

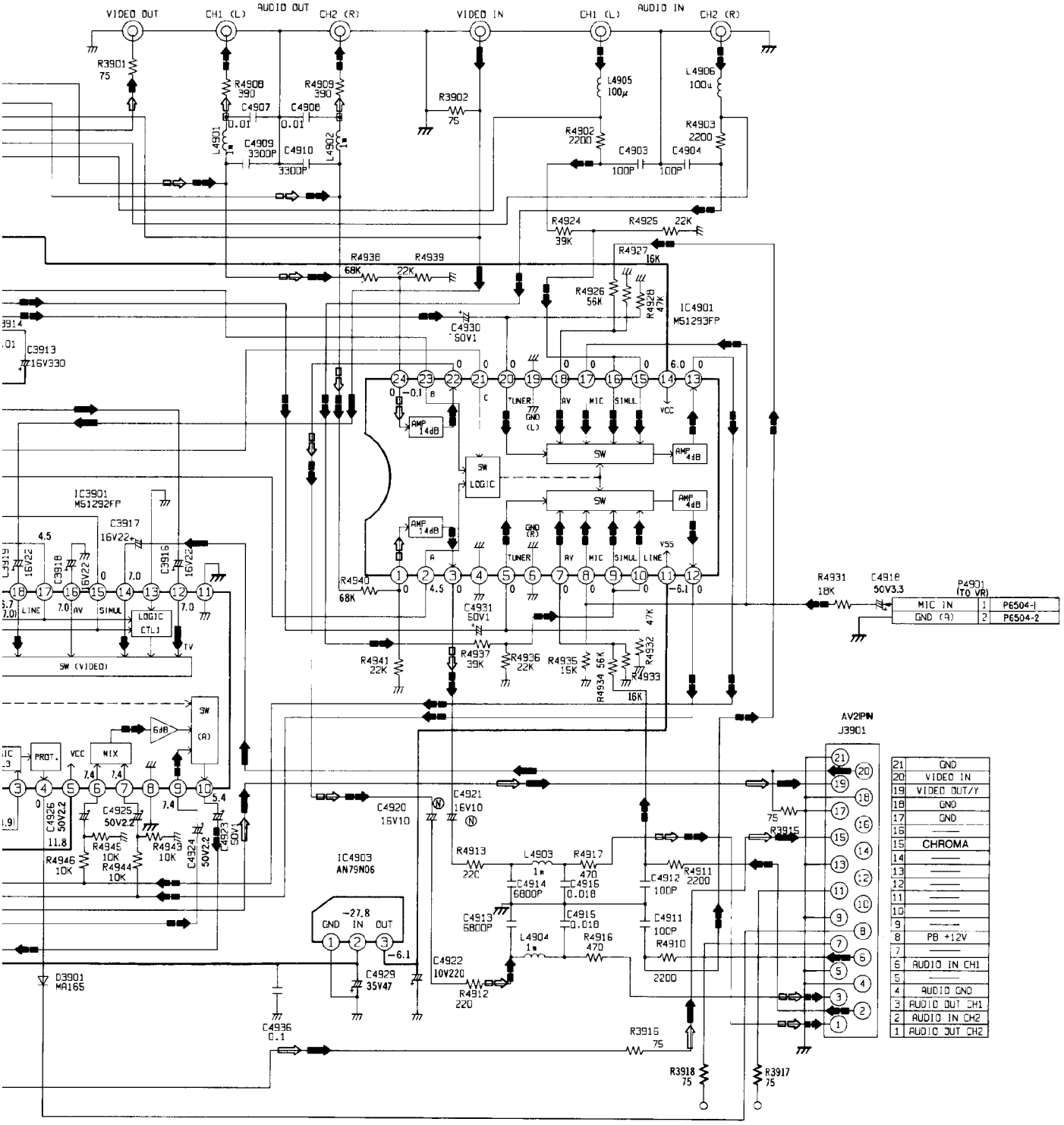


NAL PATH IN REC MODE

NAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

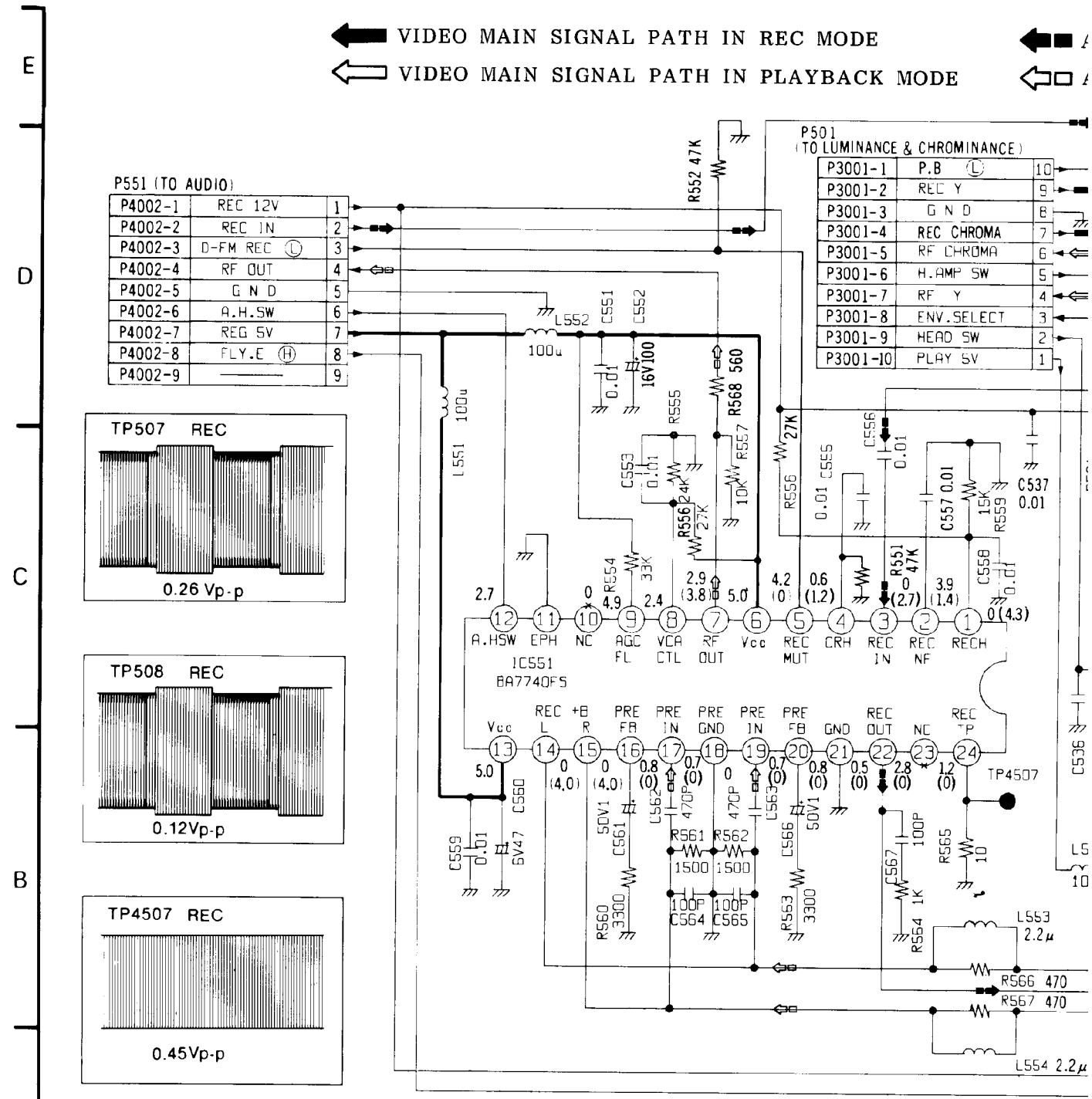
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL (S-VHS; SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS; SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-22. HEAD AMP SCHEMATIC DIAGRAM

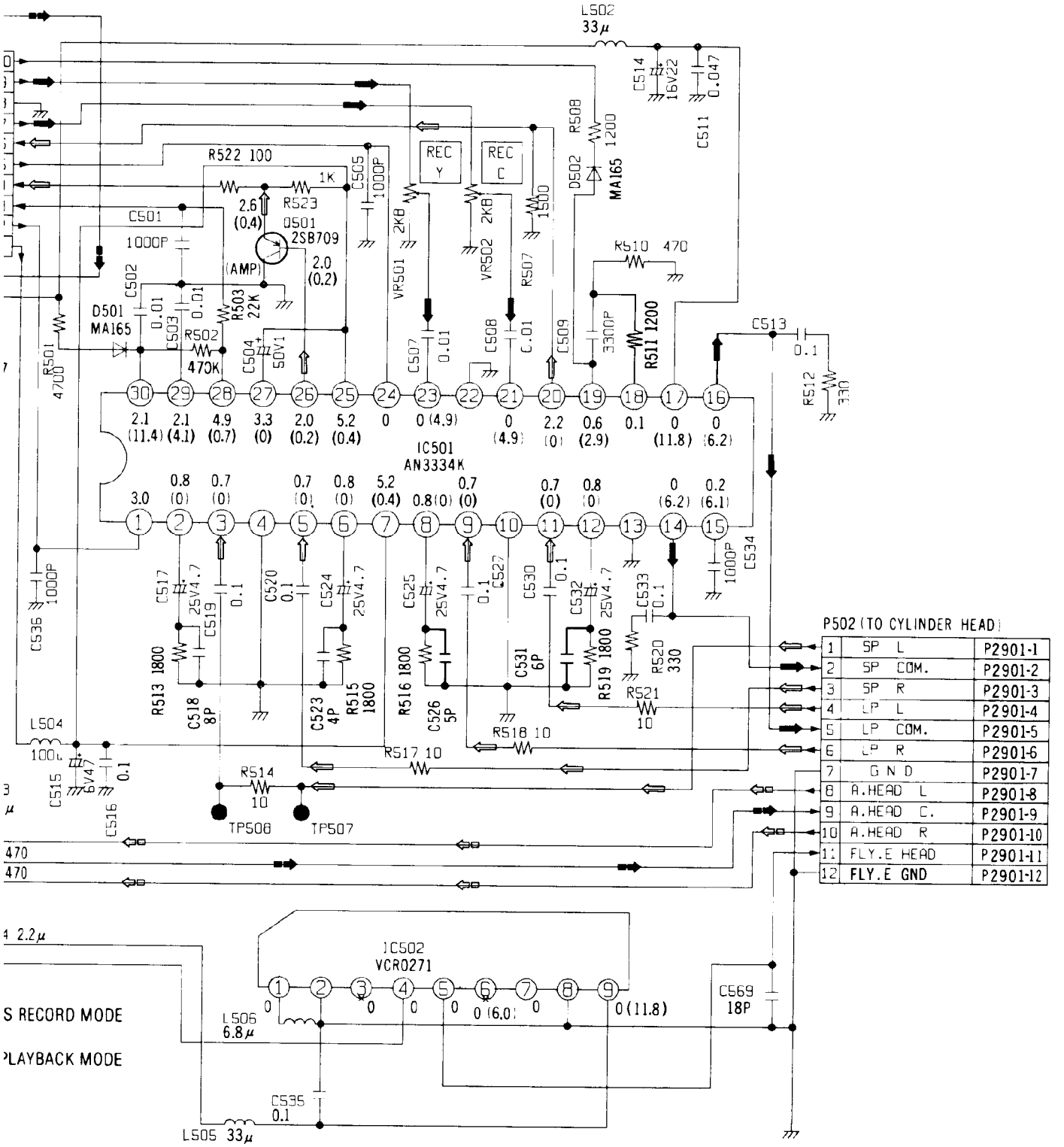


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS REC
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYB
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

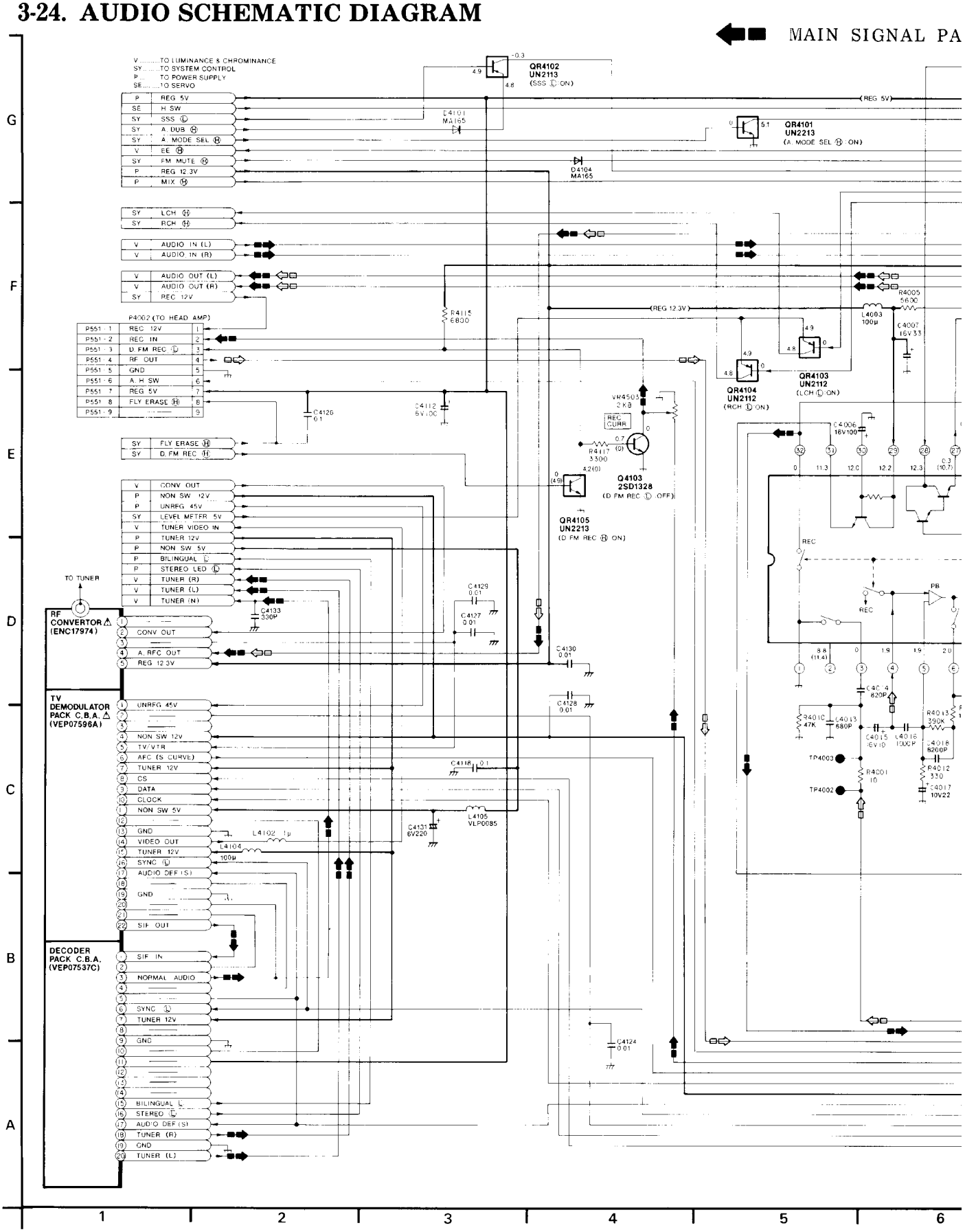
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

■ AUDIO MAIN SIGNAL PATH IN REC MODE

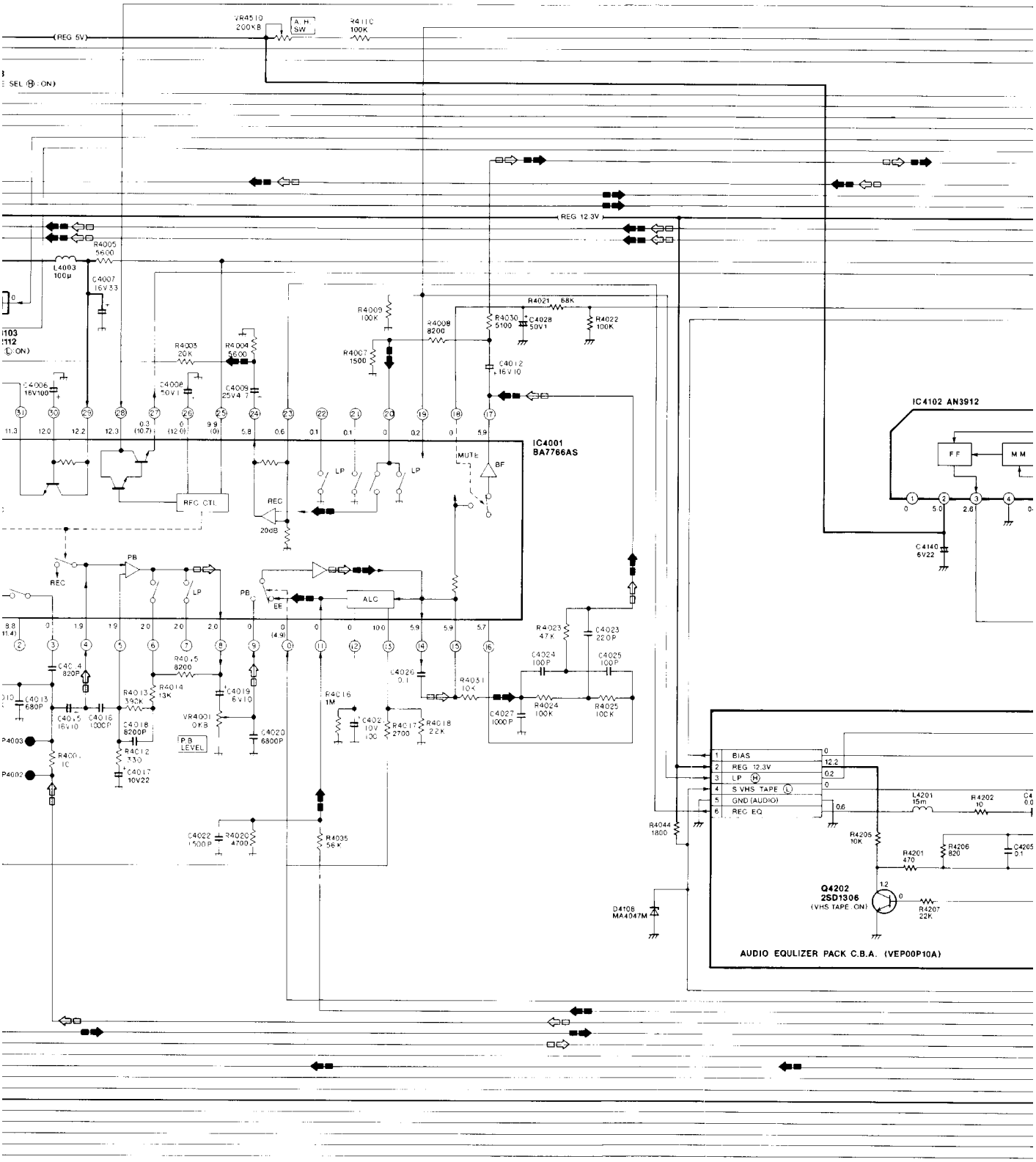
□ AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



3-24. AUDIO SCHEMATIC DIAGRAM

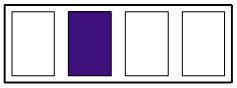


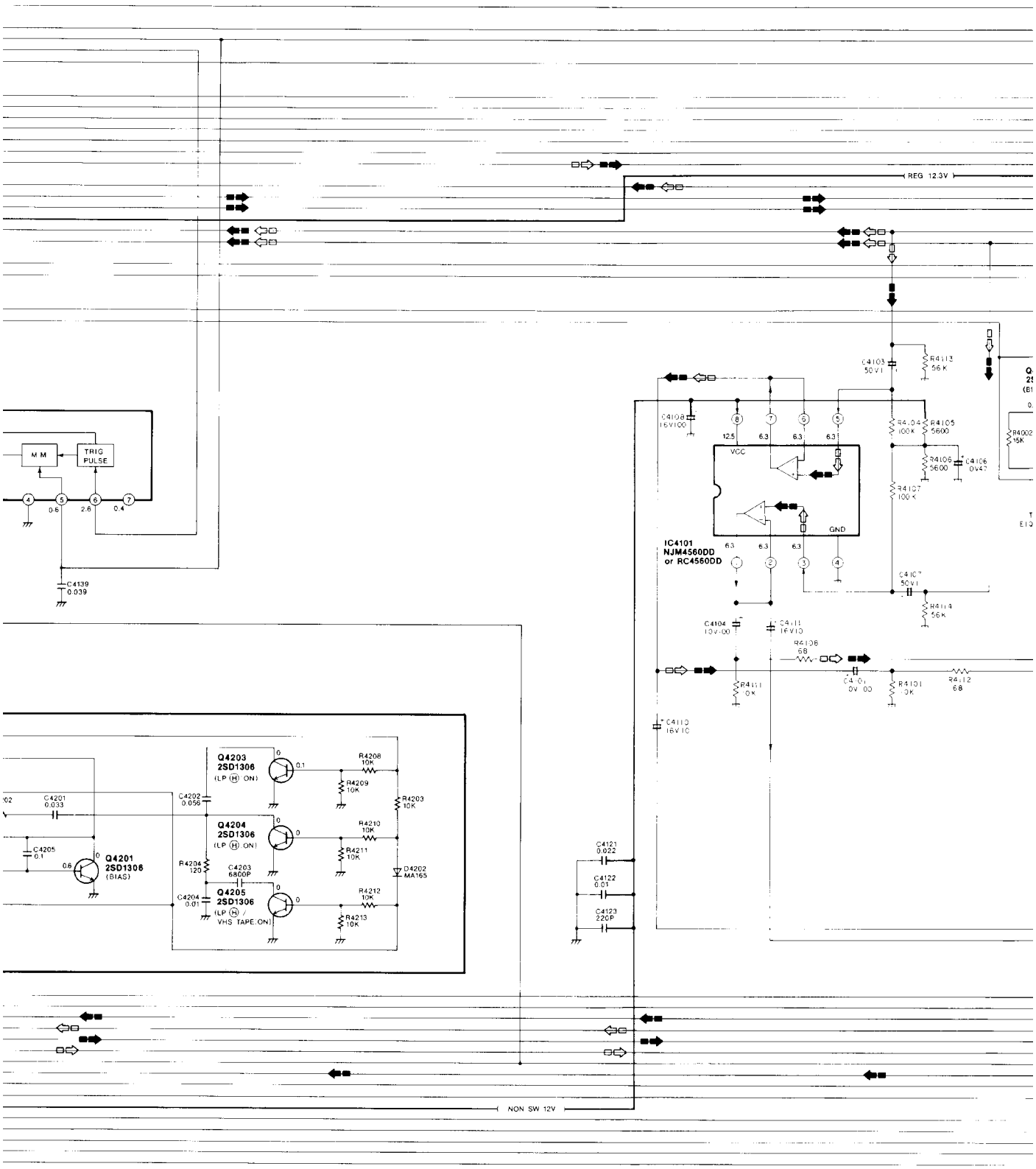
AIN SIGNAL PATH IN REC MODE ⇦▭ MAIN SIGNAL PATH IN PLAYBACK MODE



IMPORTANT S
COMPONENTS ID
WHEN REPLACIN

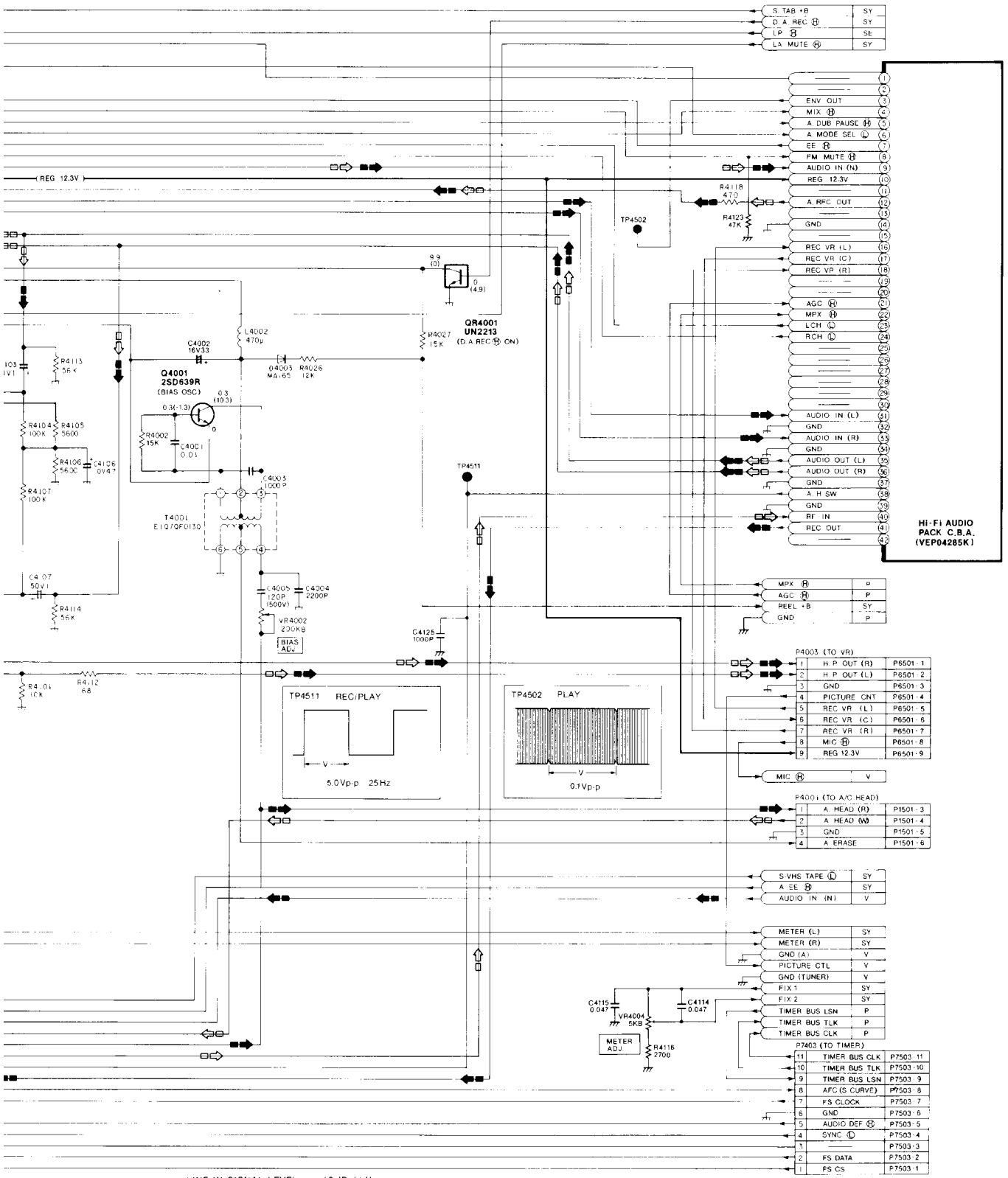
6 7 8 9 10 1





'ORTANT SAFETY NOTICE:
IPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
:N REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION. (S-VHS: SP MODE)

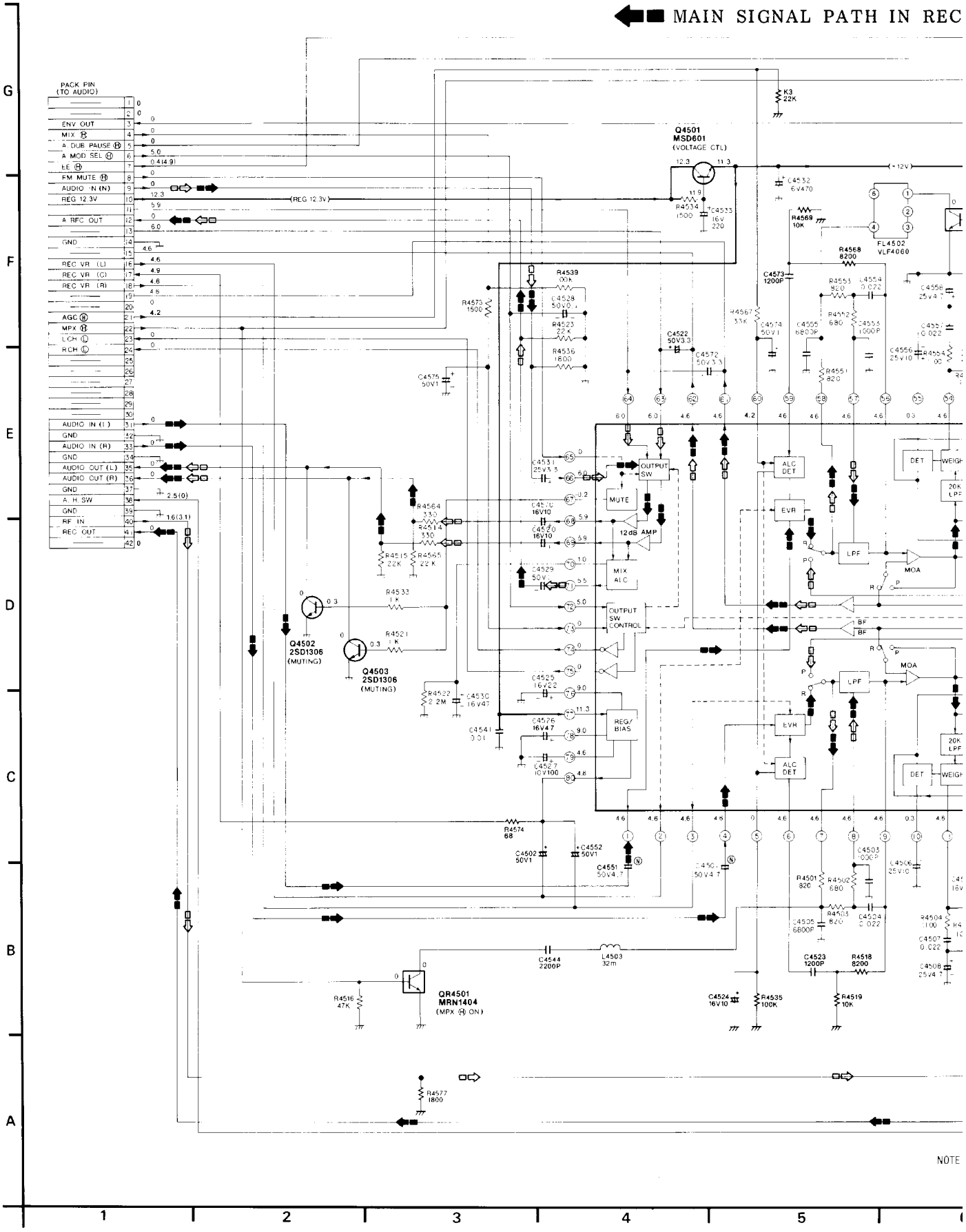


JREMENT MODE OF THE
ES ARE FOLLOWING CONDITION.
) MODE)

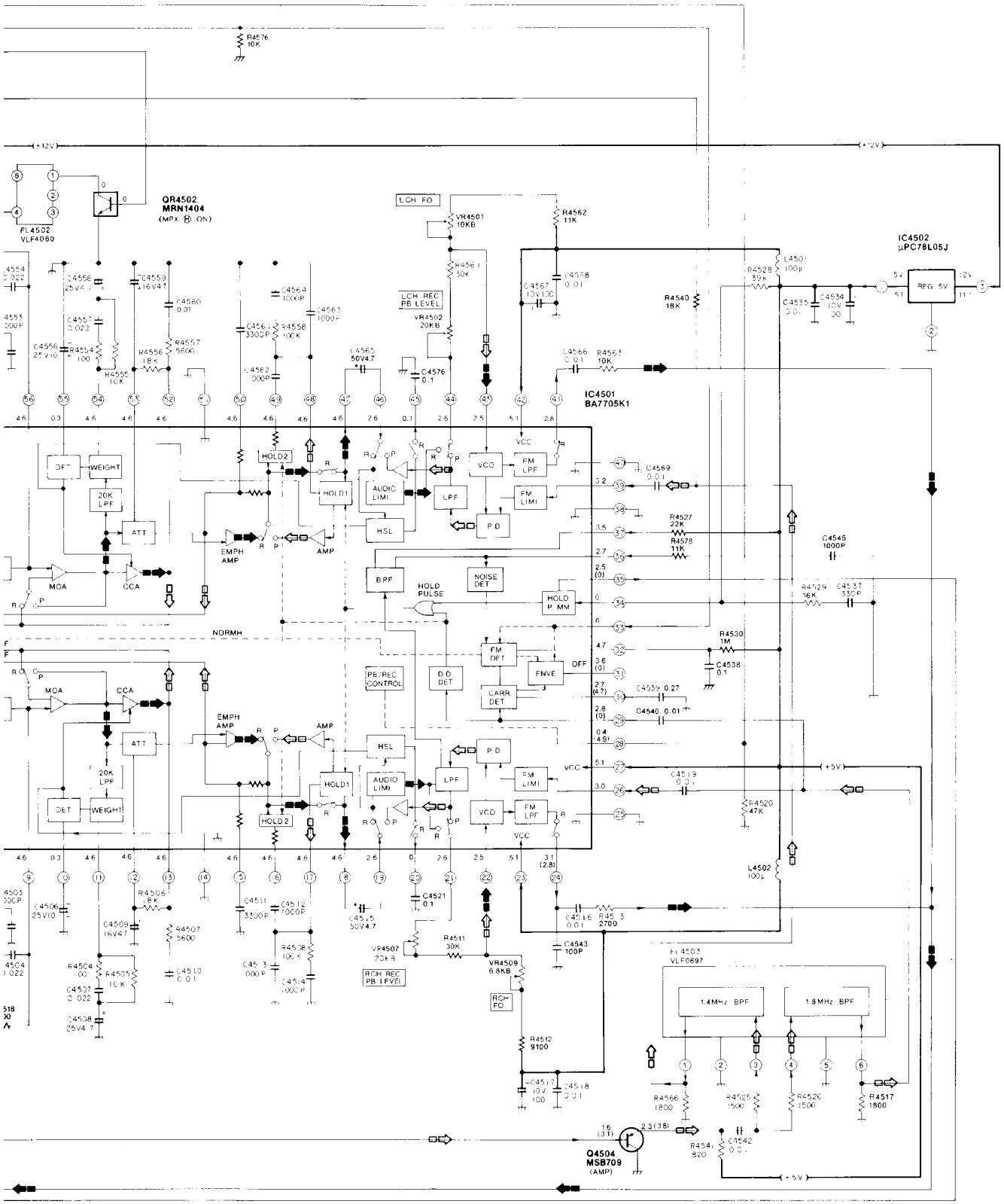
- LINE IN SIGNAL LEVEL... −10dB 1kHz
- MEASUREMENT MODE
  REC...BRACKETS ( )
  PLAY...WITHOUT BRACKETS

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-26. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM



'H IN REC MODE ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE

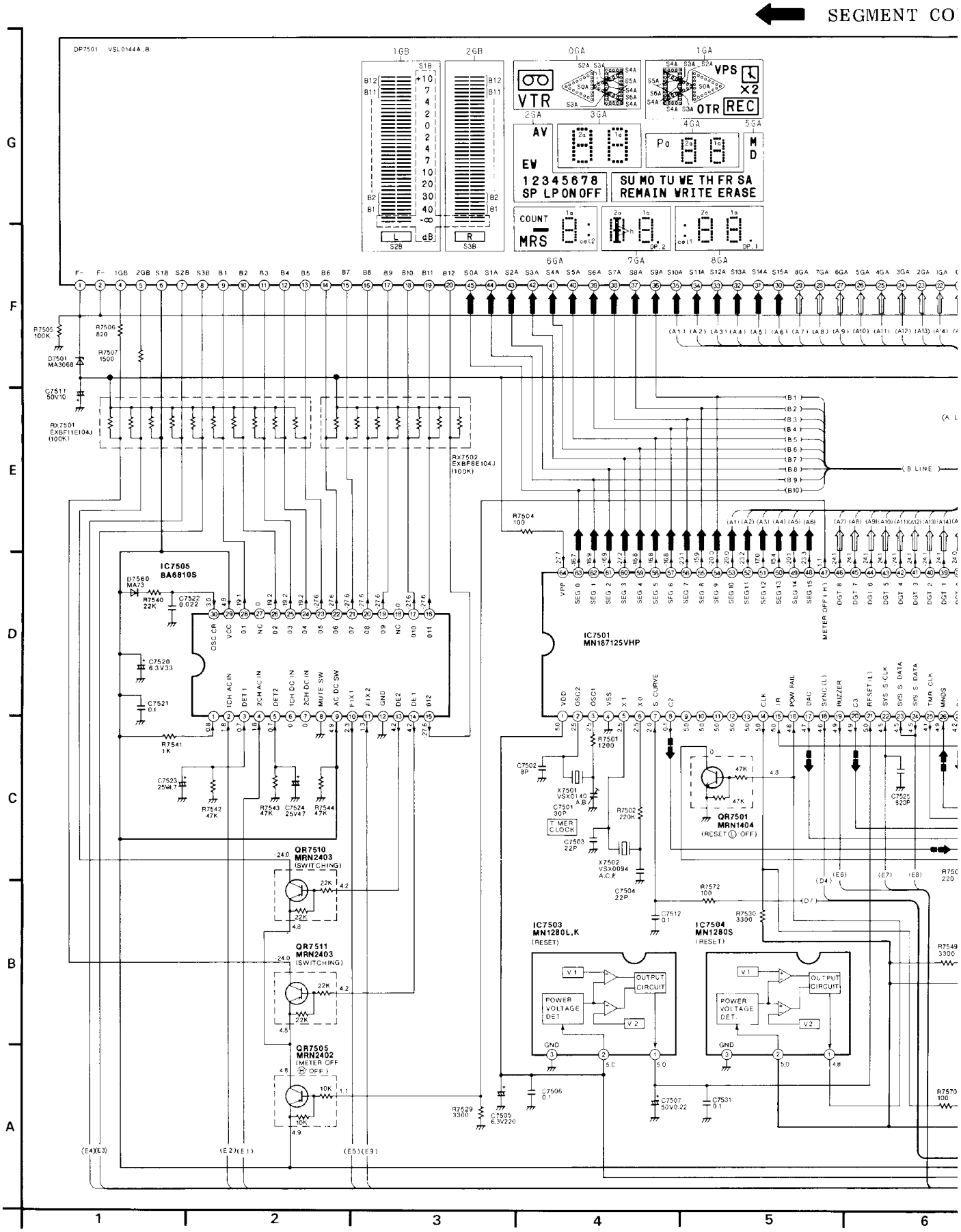


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION. (SP MODE)

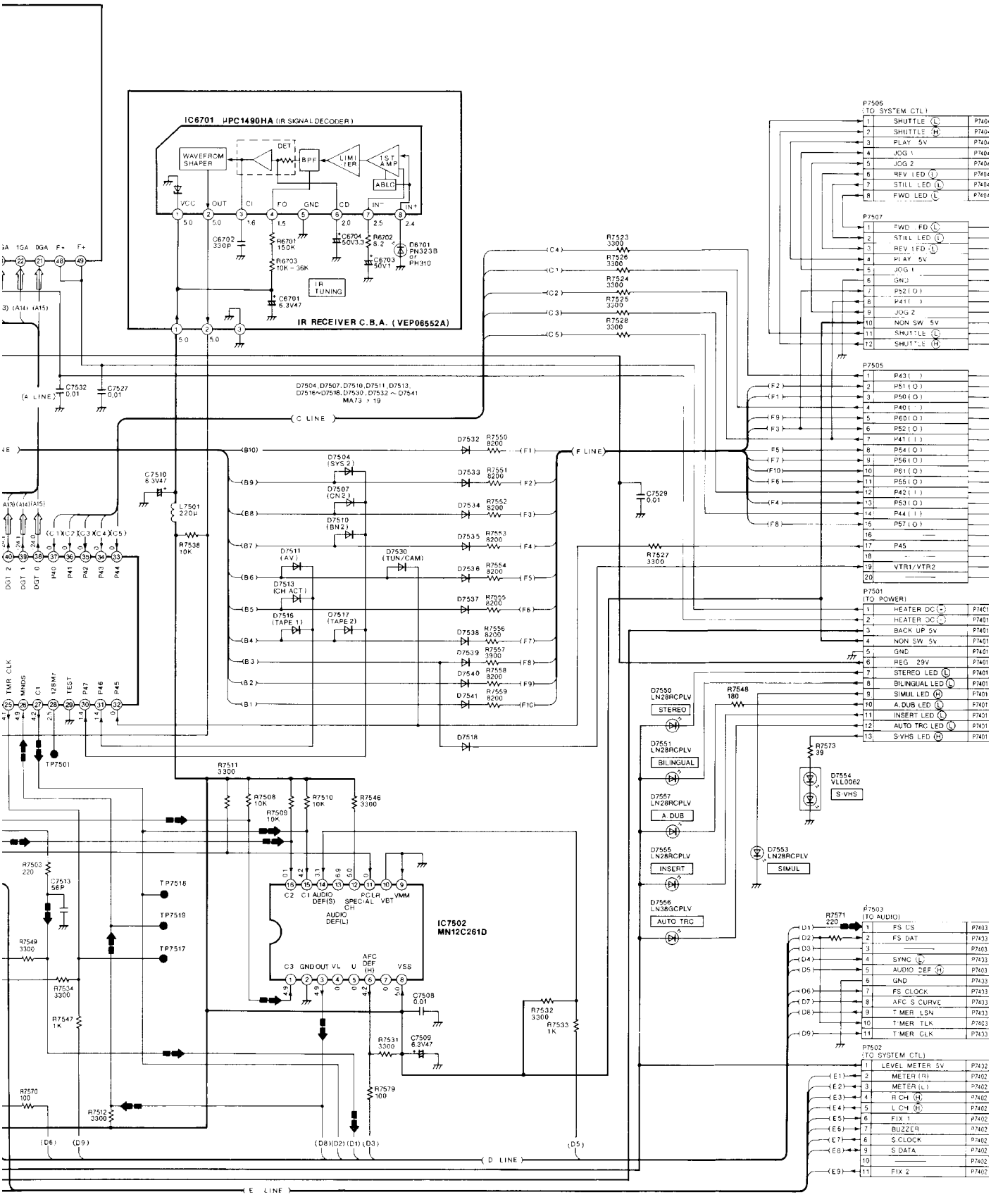
- LINE IN SIGNAL LEVEL... 10dB 1kHz
- MEASUREMENT MODE
  REC...BRACKETS ( )
  PLAY...WITHOUT BRACKETS

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

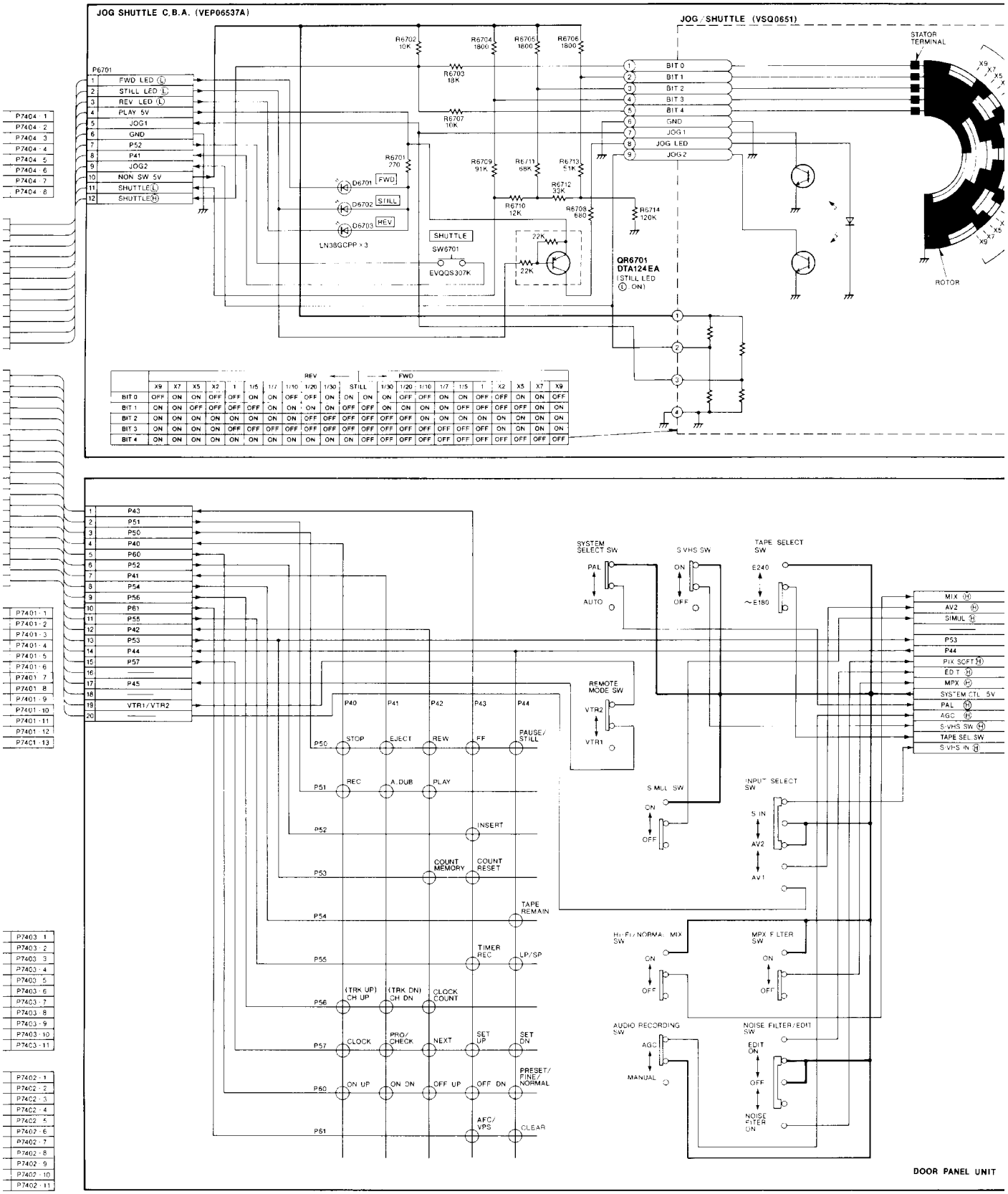
3-29. TIMER & VR SCHEMATIC DIAGRAM



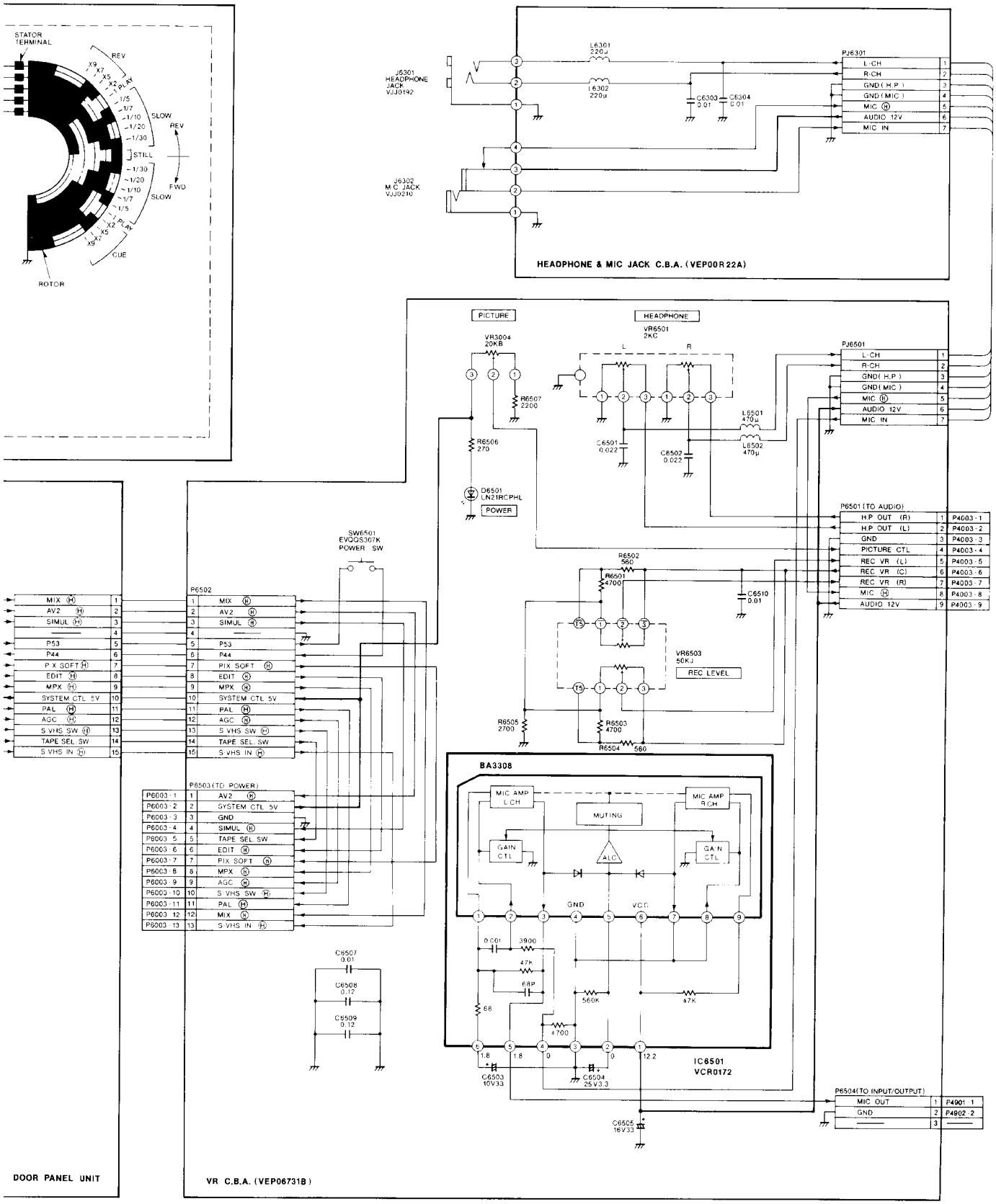
CONTROL SIGNAL ⇦ GRID CONTROL SIGNAL ⇦■ TUNE CONTROL SIGNA



NAL



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON TH S DIAGI

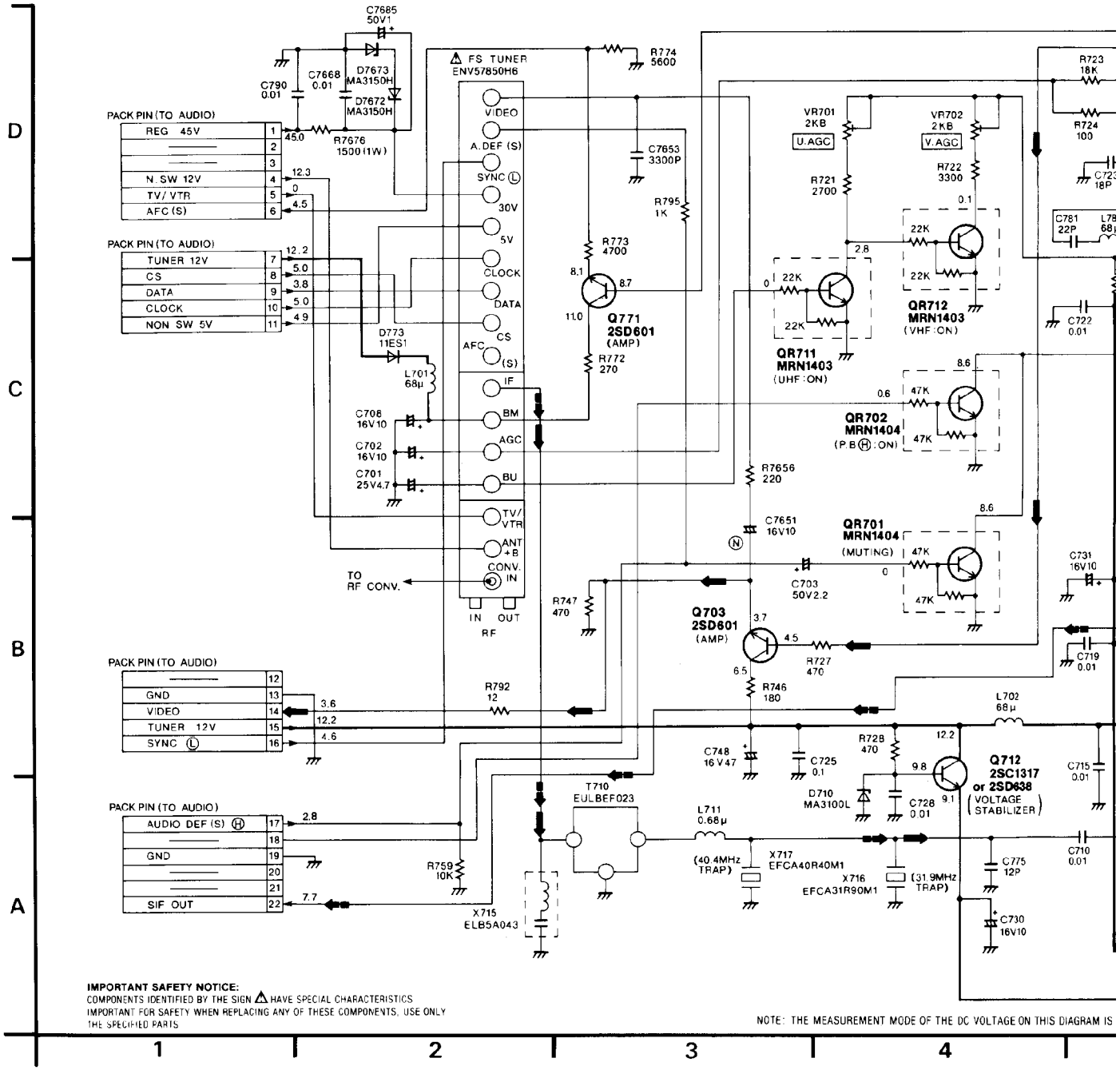


OLTAGE ON THIS DIAGRAM IS STOP MODE. (S-VHS : SP MODE)

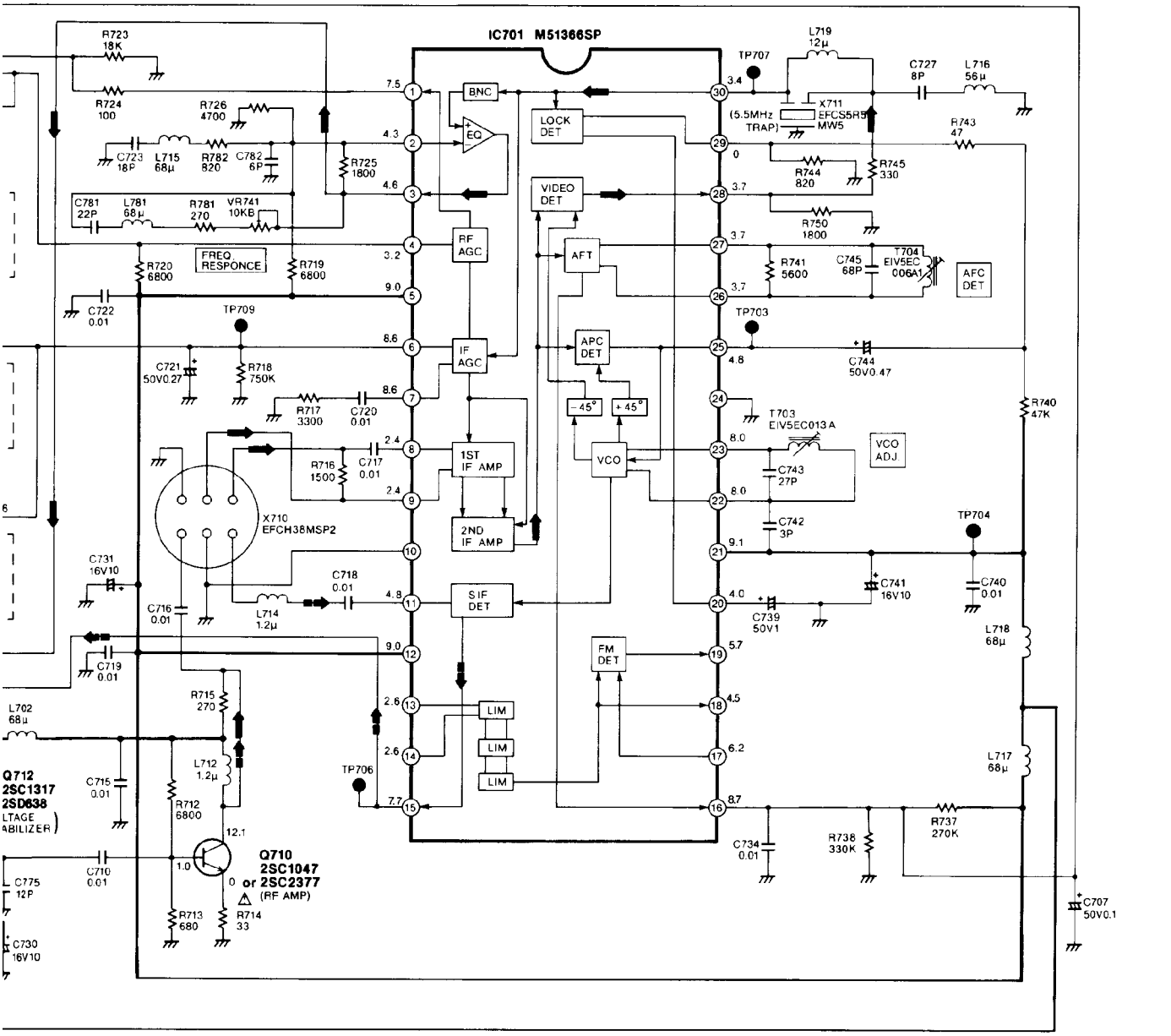
NOTE : DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-30. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

VIDEO SIGNAL PATH AUDIO SIGNAL PATH



PATH



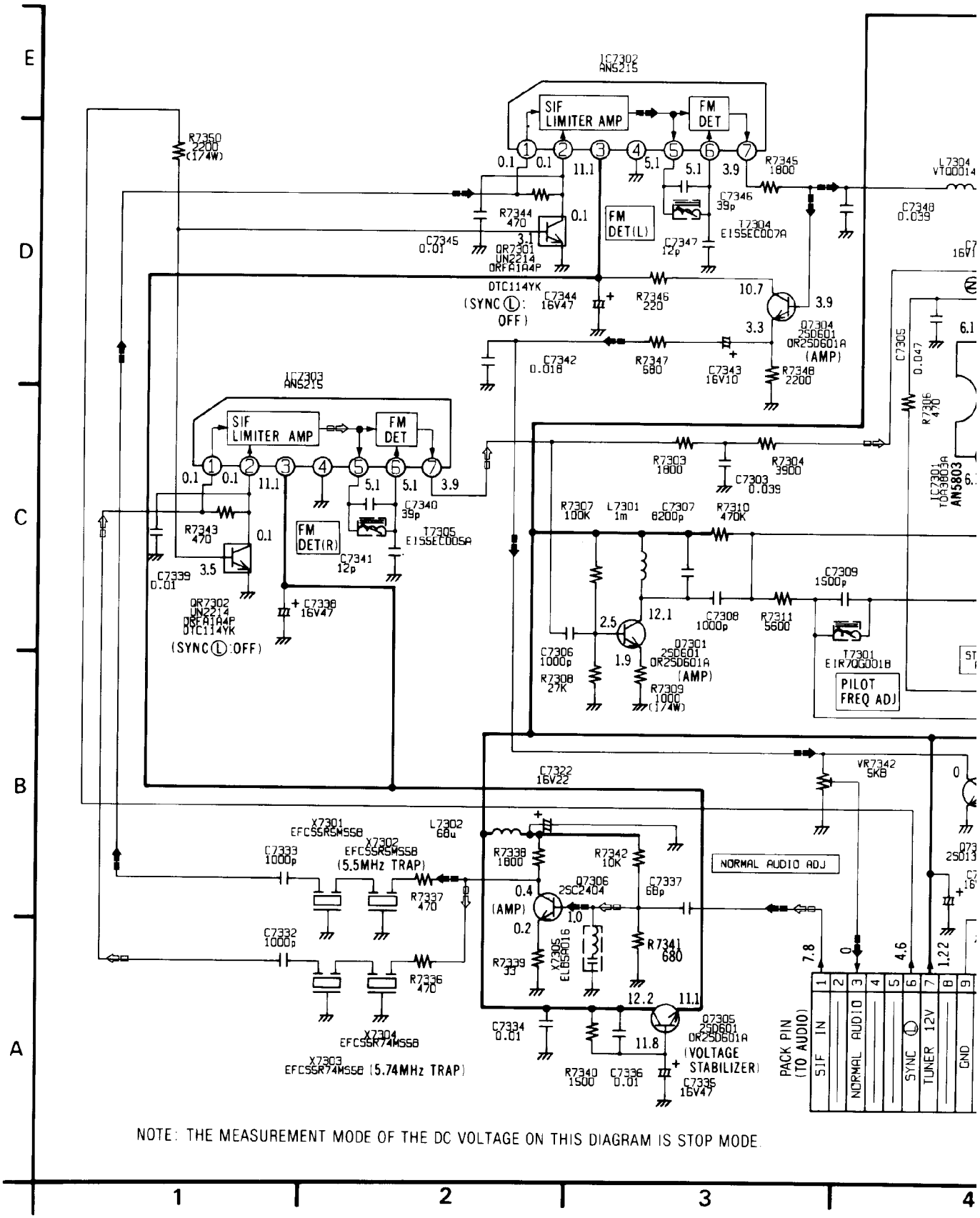
TAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

5 6 7 8

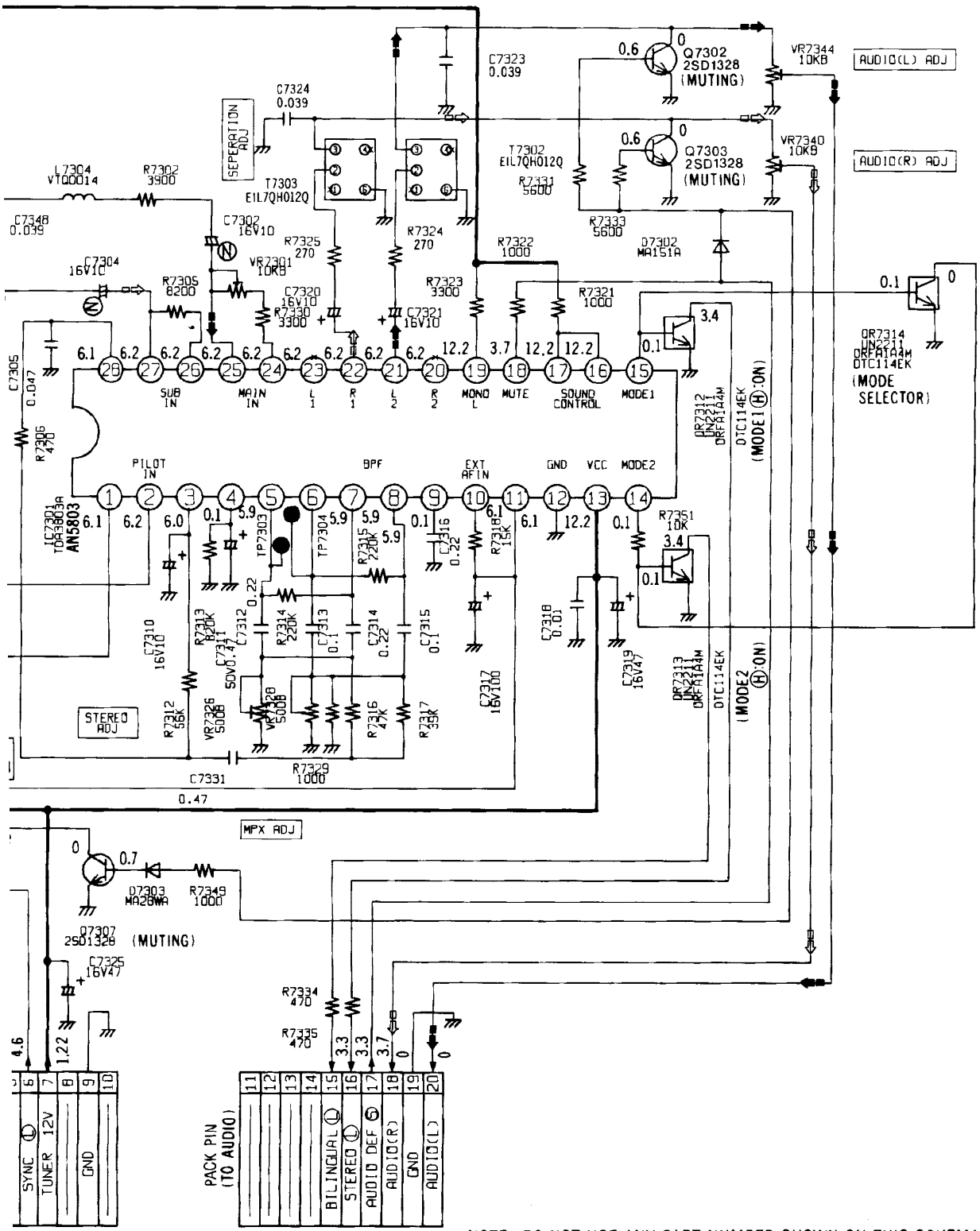
3-32. DECODER PACK SCHEMATIC DIAGRAM

AUDIO MAI



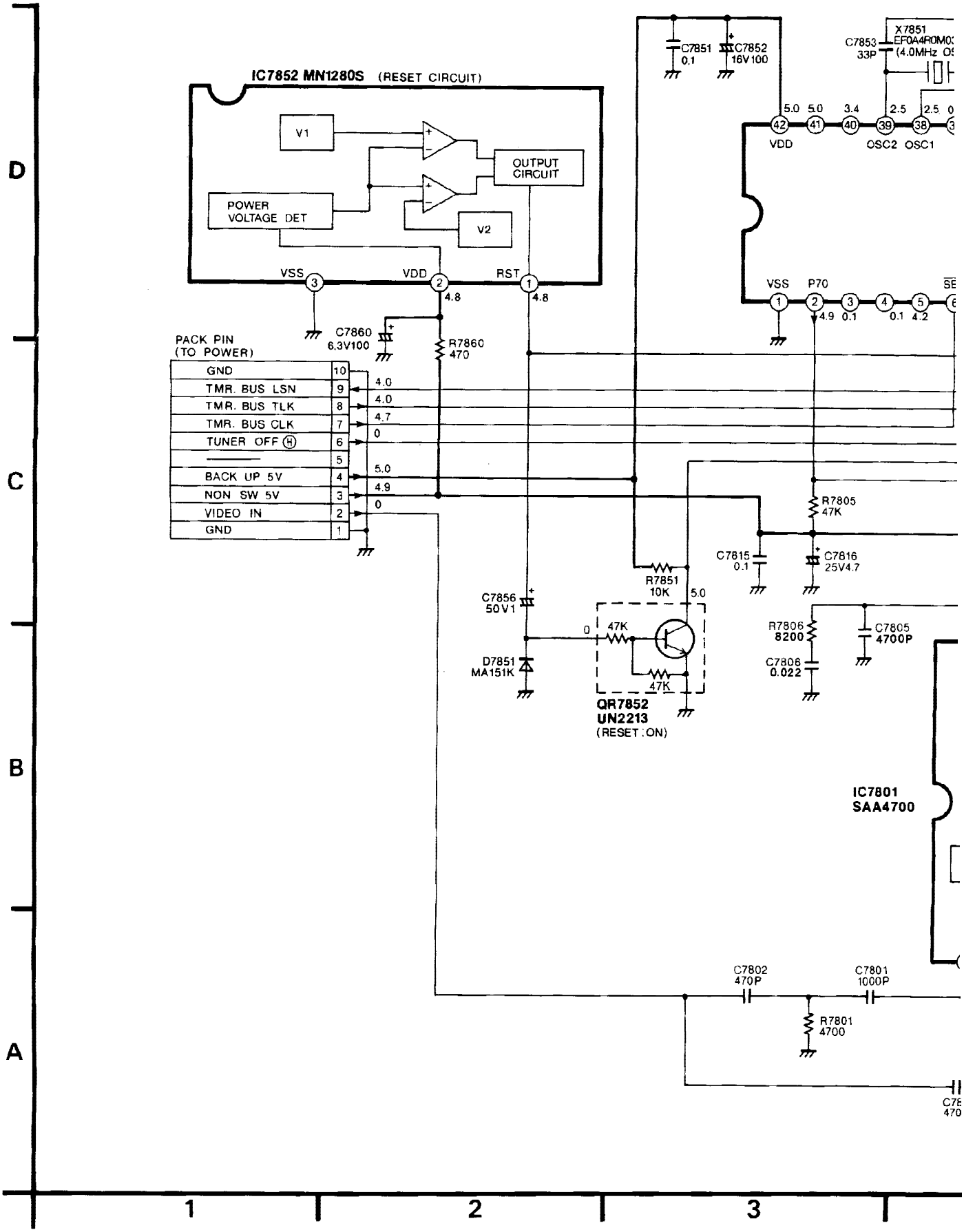
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

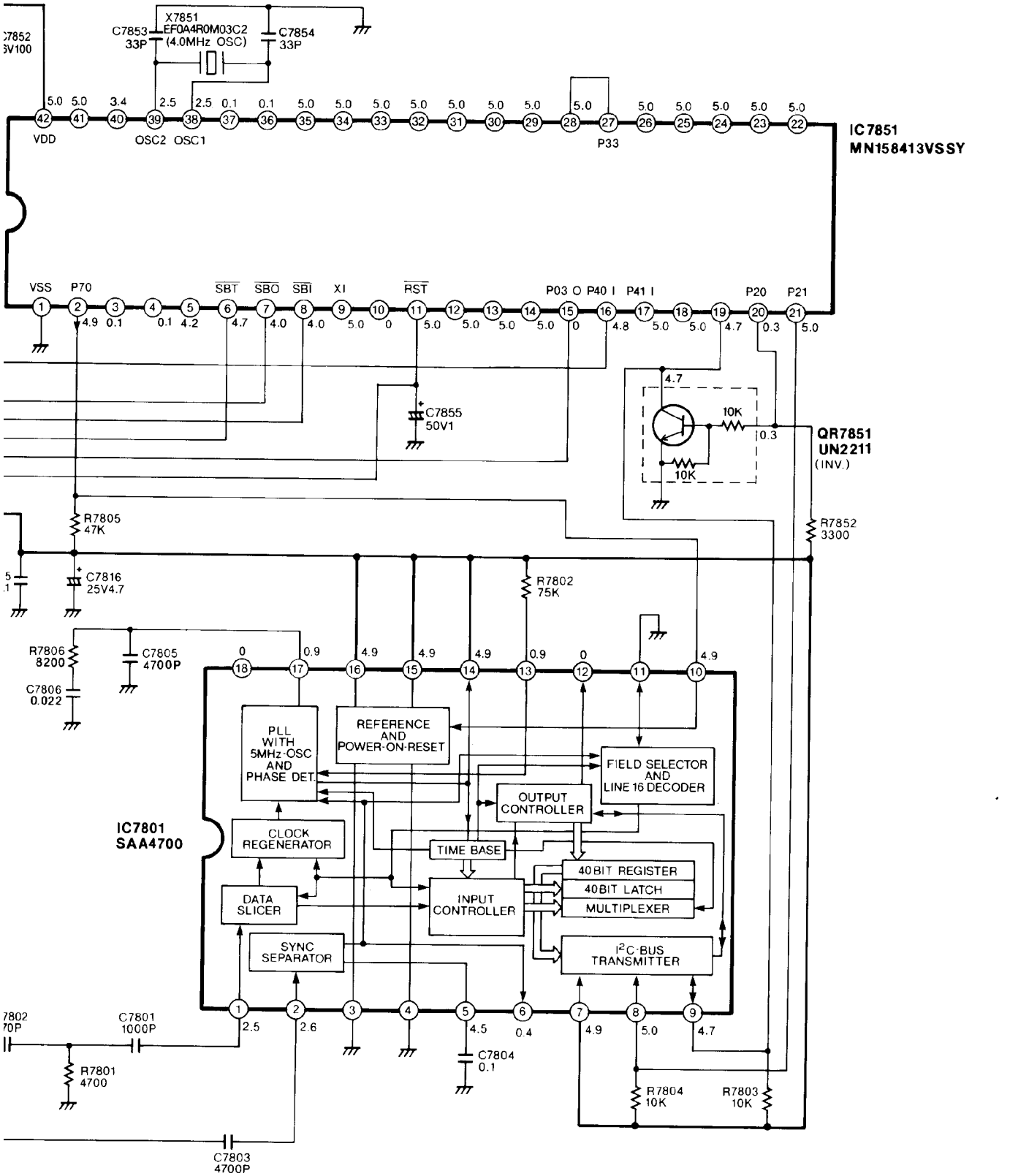
DIO MAIN SIGNAL PATH ⇦▭ AUDIO SUB SIGNAL PATH



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-34. VPS PACK SCHEMATIC DIAGRAM

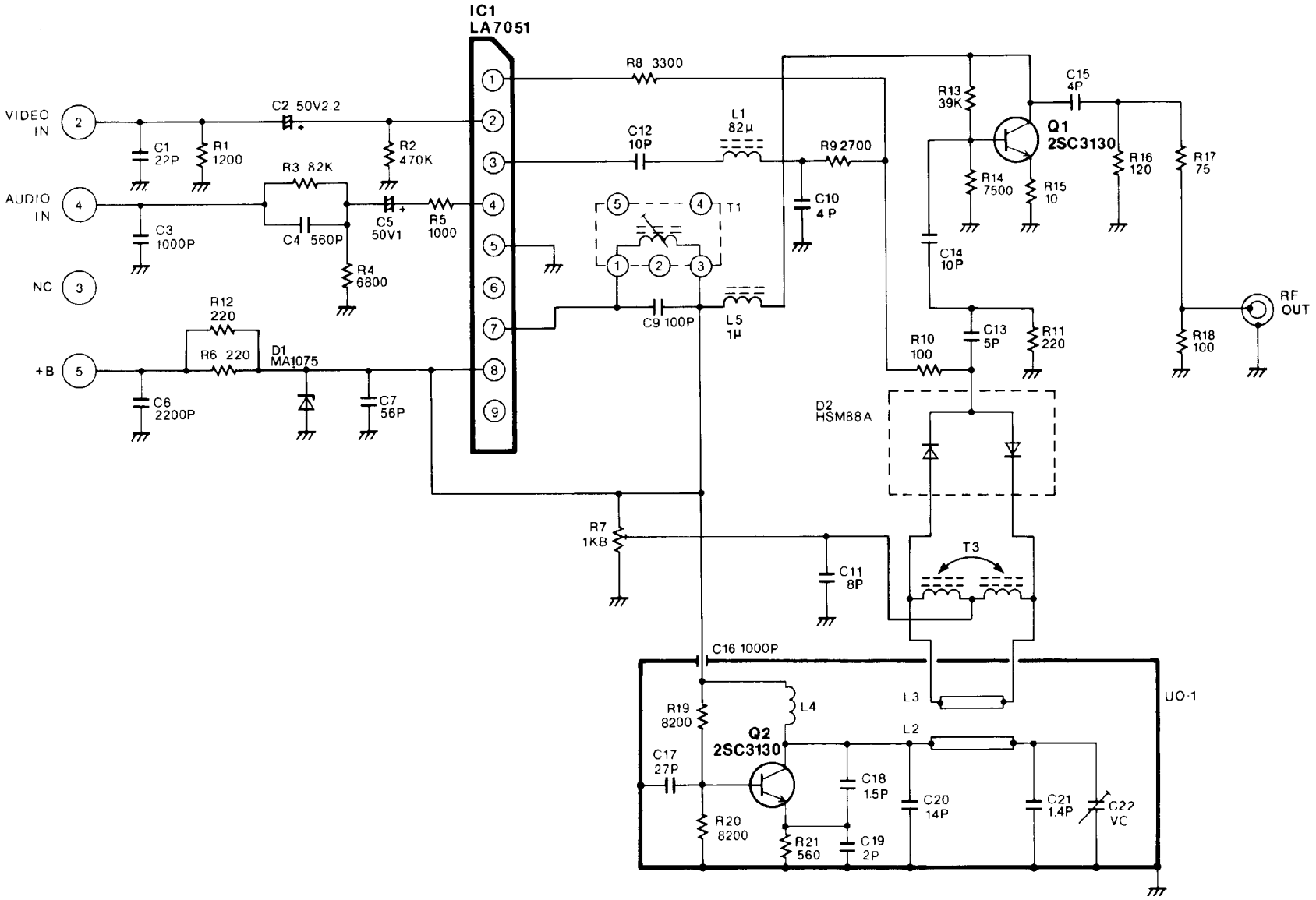




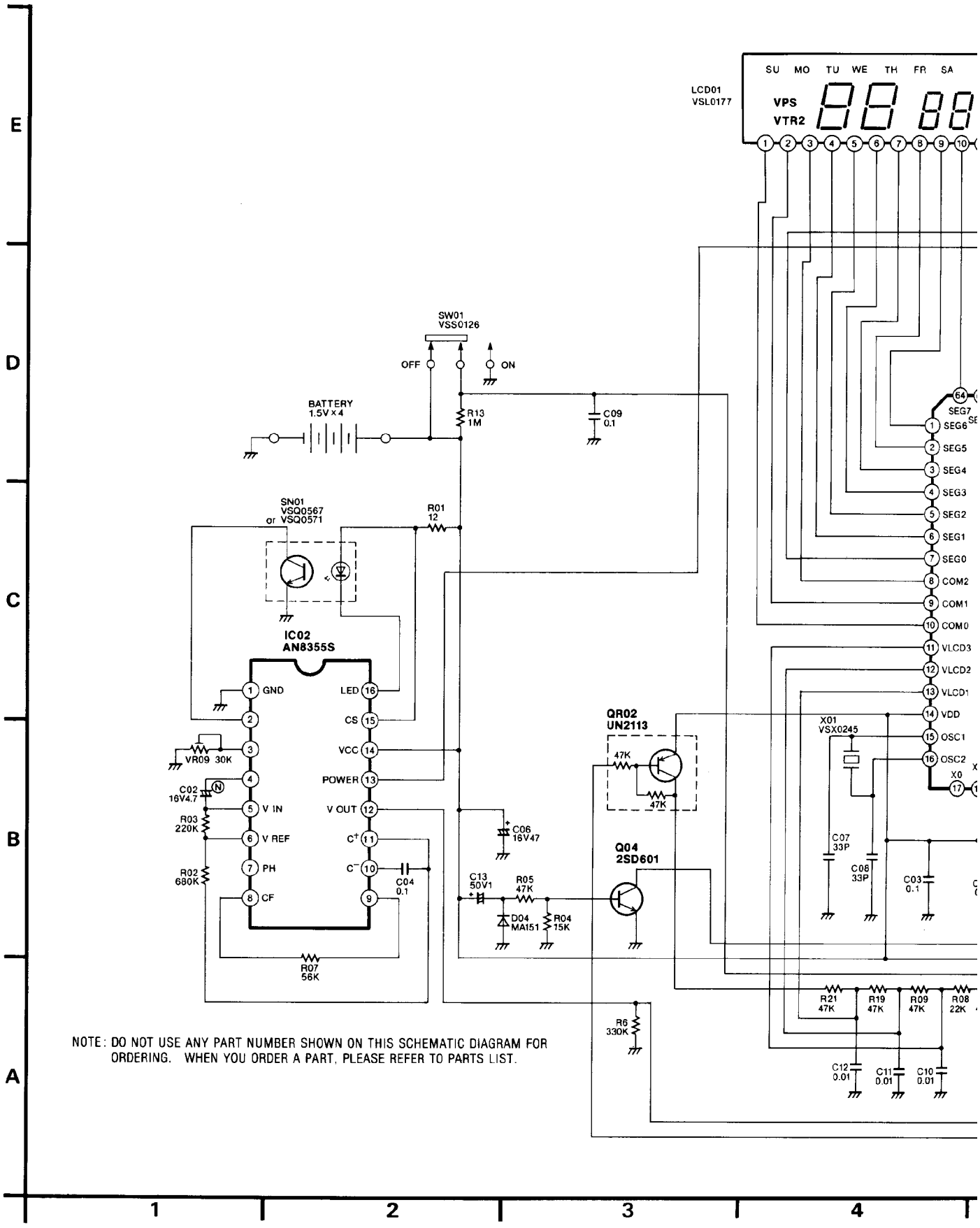
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

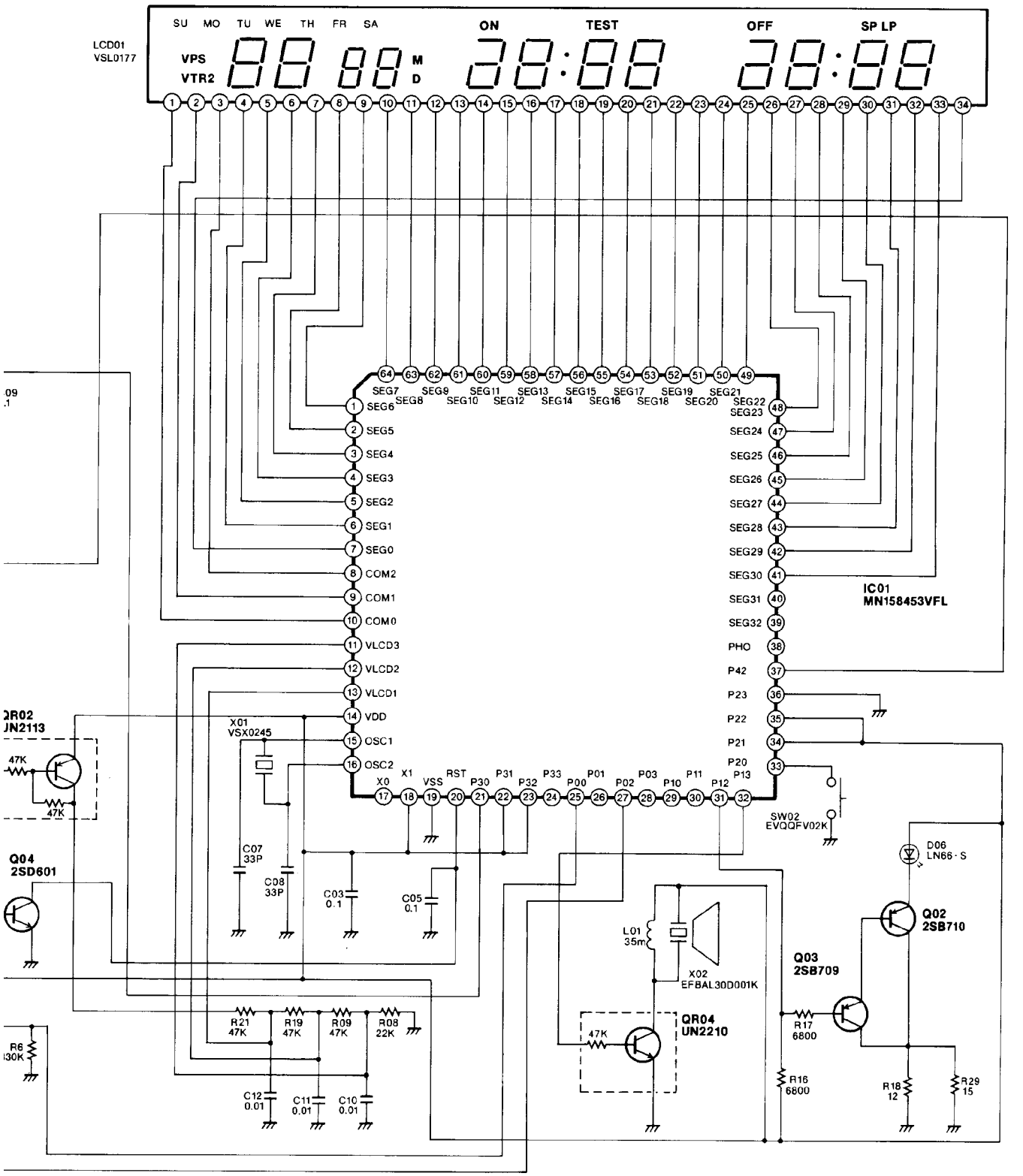
3-37. RF CONVERTER SCHEMATIC DIAGRAM (ENC17974)



3-38. DIGITAL SCANNER SCHEMATIC DIAGRAM
—— UNIT NO.: VEQ0996 ——



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


LCD01
VSL0177
SU MO TU WE TH FR SA
VPS
VTR2
M
D
ON
TEST
OFF
SP LP
IC01
MN158453VFL
SEG0
SEG1
SEG2
SEG3
SEG4
SEG5
SEG6
SEG7
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
SEG14
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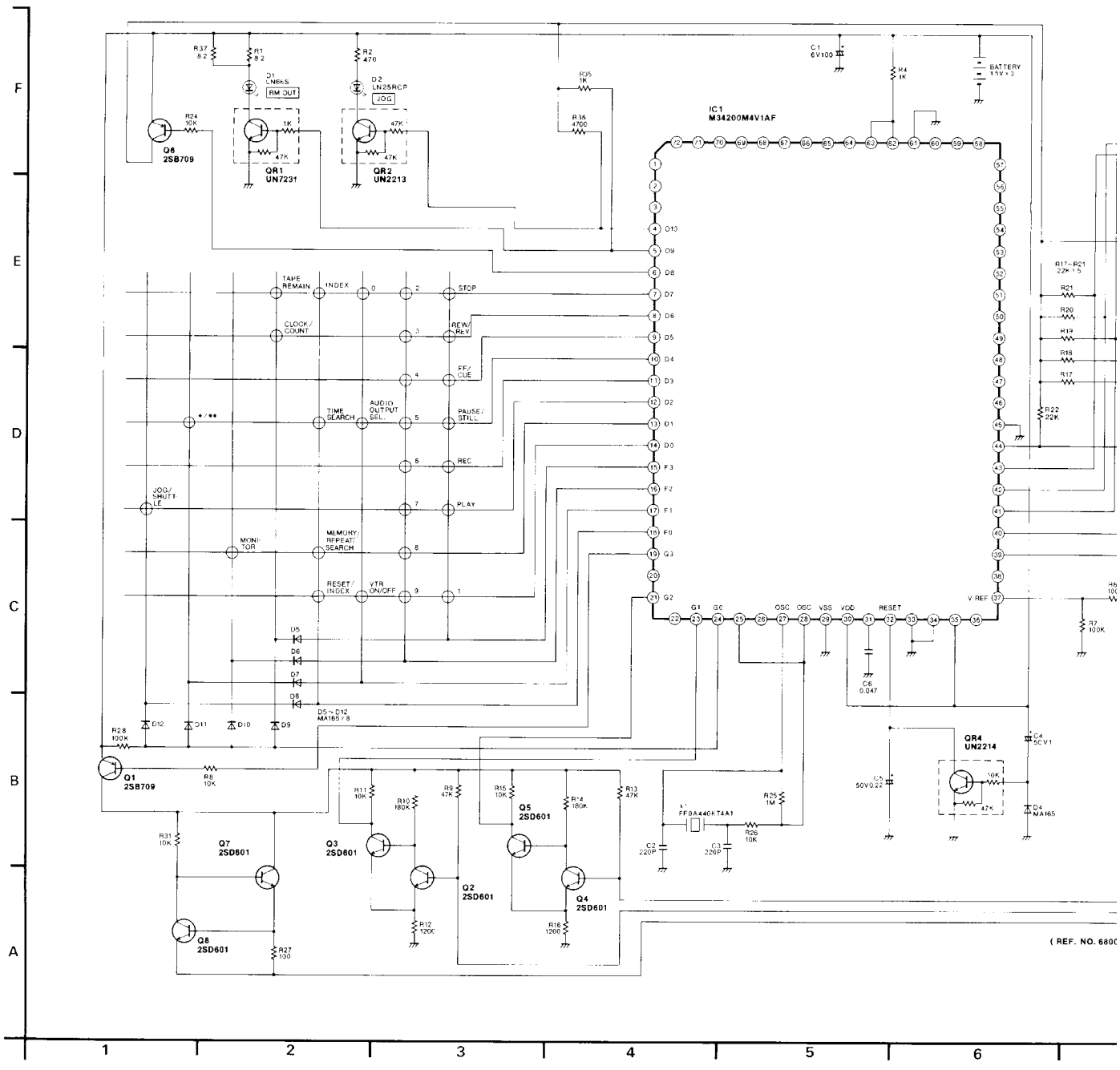
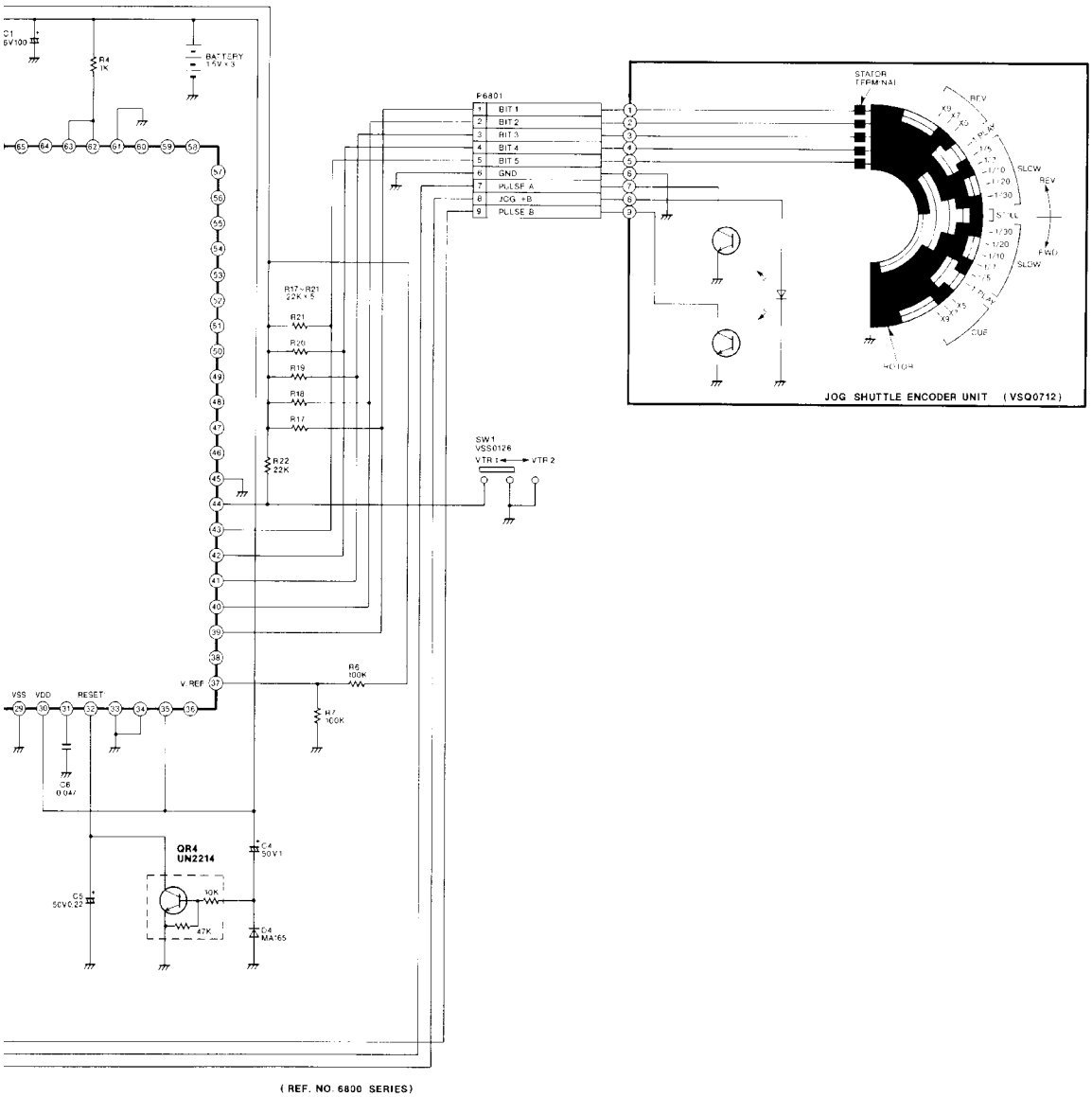
SEG28
SEG29
SEG30
SEG31
SEG32
COM0
COM1
COM2
VLCD1
VLCD2
VLCD3
VDD
OSC1
OSC2
X0
X1
VSS
RST
P30
P31
P32
P33
P00
P01
P02
P03
P10
P11
P12
P13
P20
P21
P22
P23
P42
PHO
X01
VSX0245
SW02
EVQQFV02K
Q04
2SD601
Q02
2SB710
Q03
2SB709
D06
LN66·S
L01
35m
X02
EFBAL30D001K
QR04
UN2210
C07
33P
C08
33P
C03
0.1
C05
0.1
C12
0.01
C11
0.01
C10
0.01
R21
47K
R19
47K
R09
47K
R08
22K
R17
6800
R16
6800
R18
12
R29
15
47K
47K

3-40. REMOTE CONTROLLER SCHEMATIC DIAGRAM
—— UNIT NO.: VEQ1211 ——



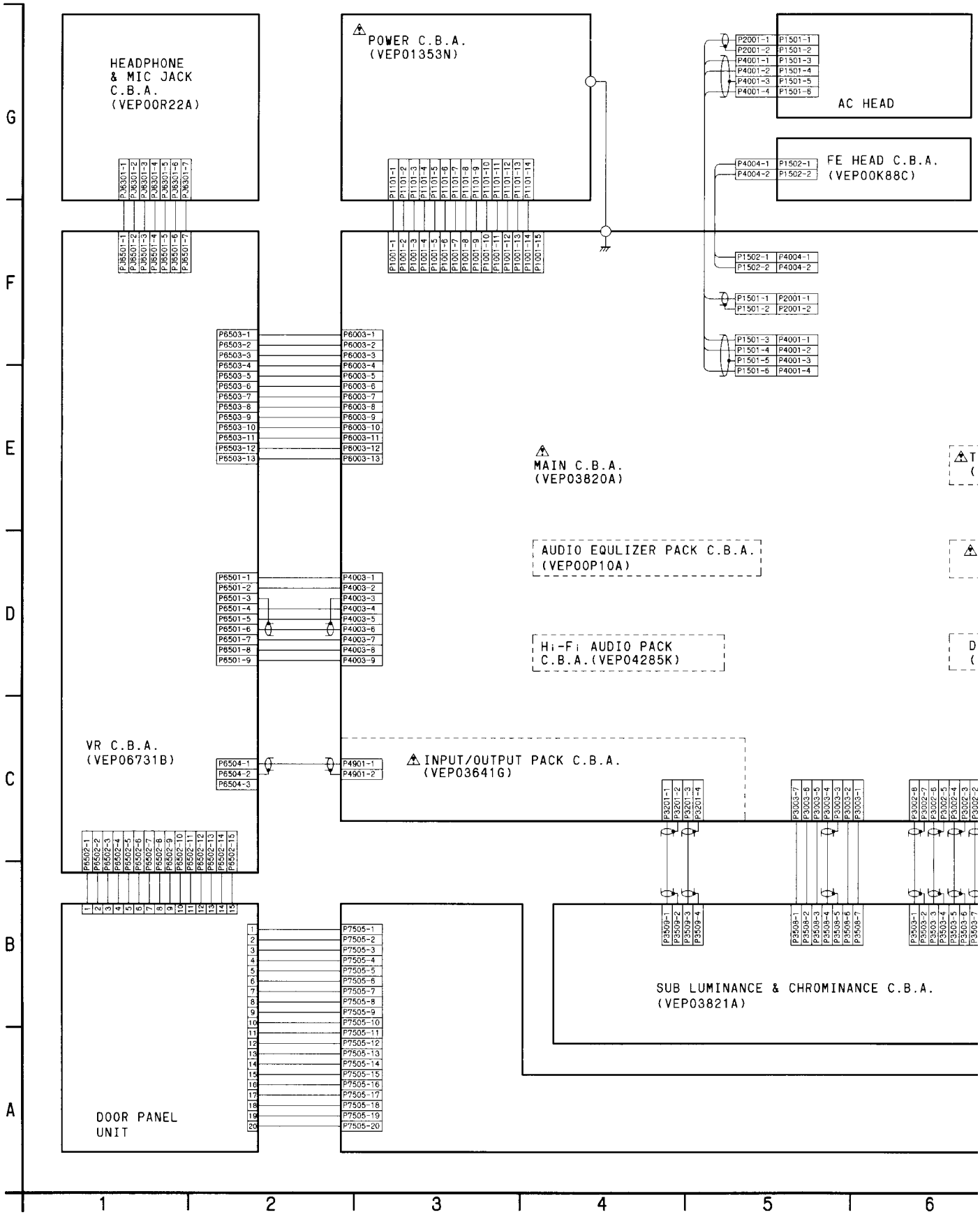


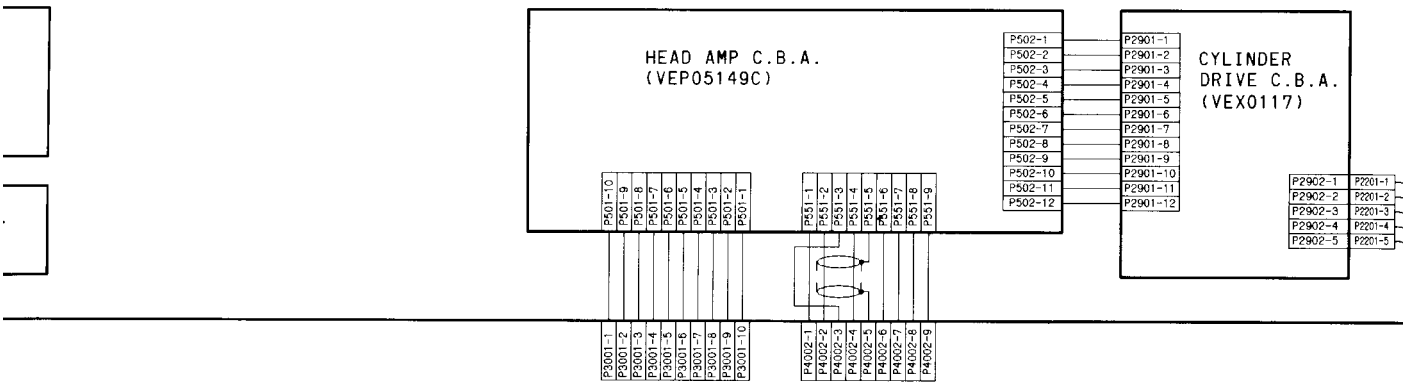
(REF. NO. 6800 SERIES)

NOTE DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

5 6 7 8 9 10

3-42. INTERCONNECTION SCHEMATIC DIAGRAM



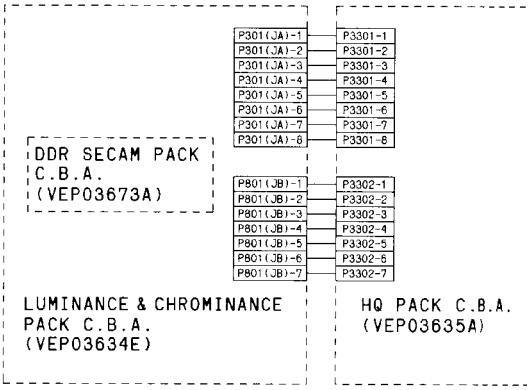


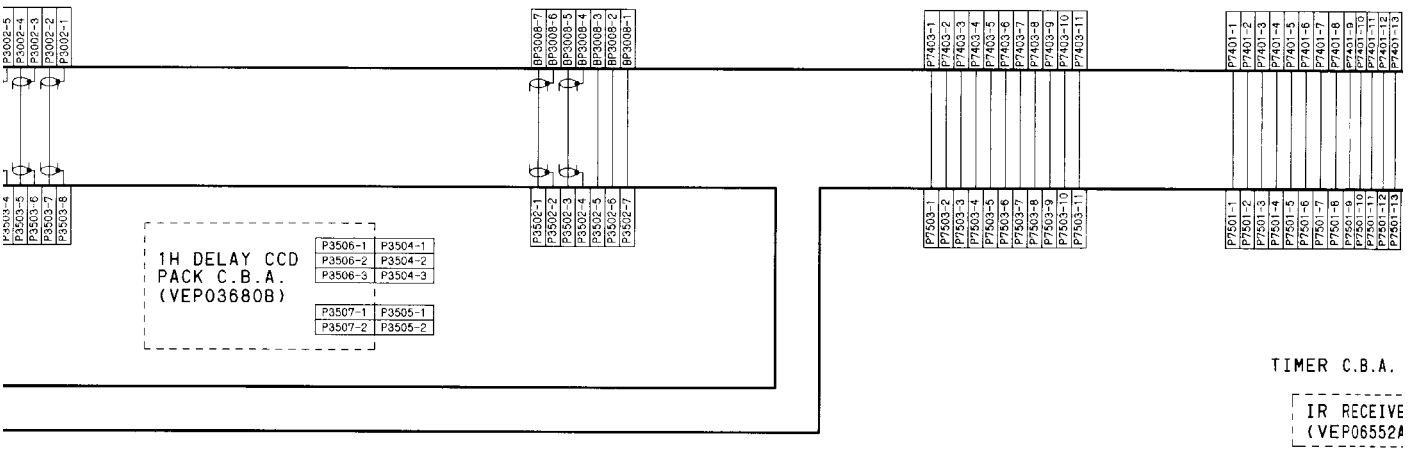
⚠TV DEMODULATOR PACK C.B.A.
(VEP07596A)

VPS PACK C.B.A.
(VEP07563A)

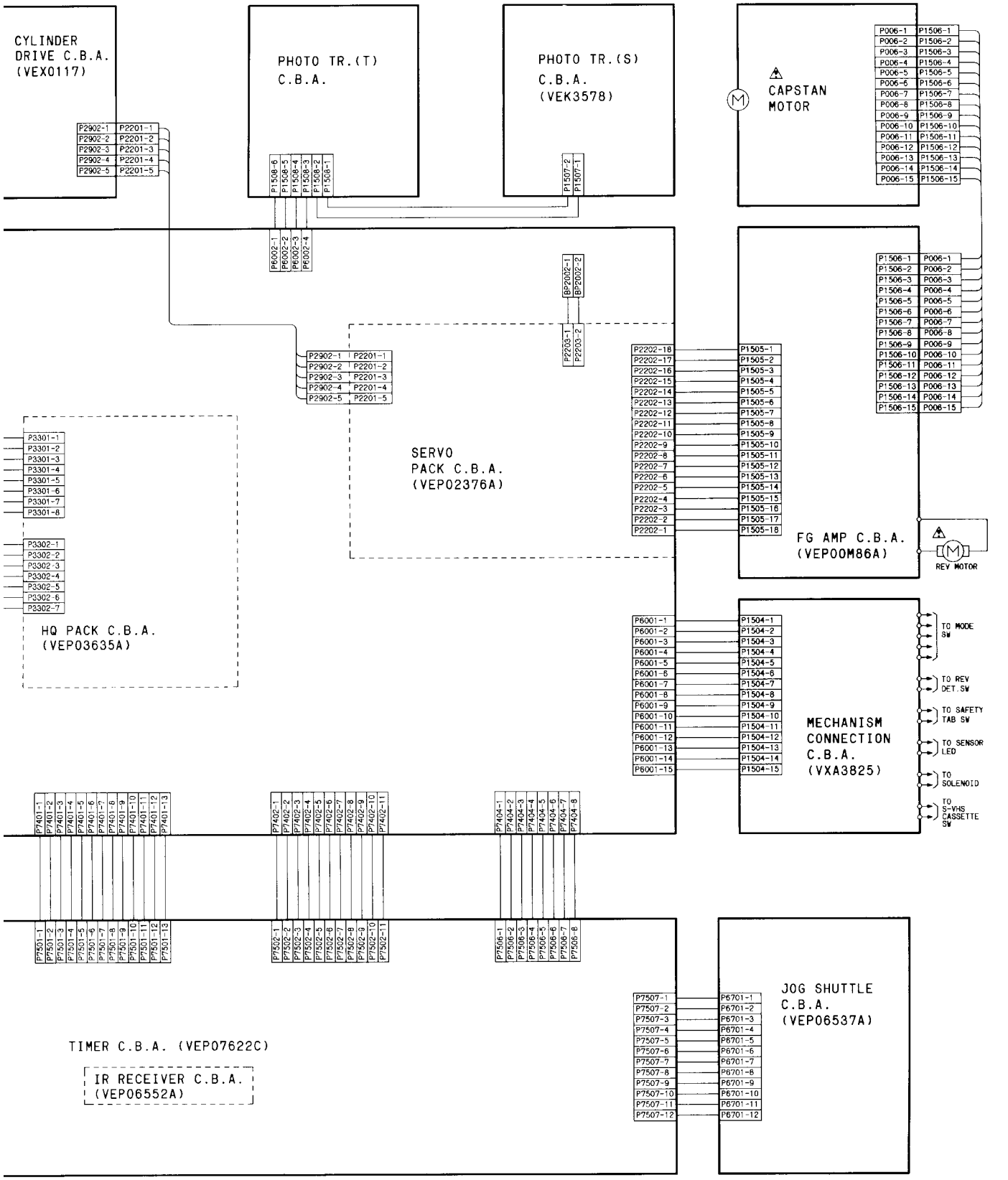
⚠ RF CONVERTER UNIT
(ENC17974)

DECODER PACK C.B.A.
(VEP07537C)





7 8 9 10 11 12

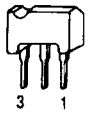


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

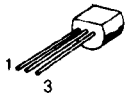
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

11 12 13 14 15 16

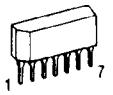
3-43. ICs & TRs INFORMATION



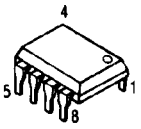
MN1280L
MN1280R
MN1280S



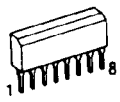
µPC78L05J
µPC78L06J



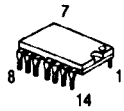
AN3912
AN5215



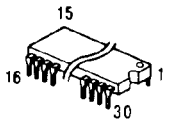
µPC393G2
MSM6871RS
RC4560DD
µPC358G



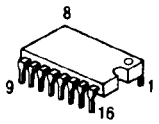
µPC1490HA



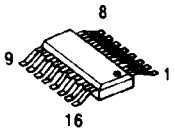
LM339N



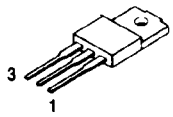
AN3334K
AN3495K
M51366SP
BA6810S



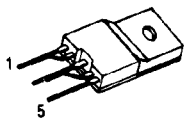
MN12C261D



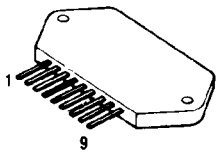
MN4052BS
M52055FP
MC14519BF
µPD4052BG



SE013E



STRD6008X



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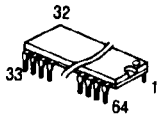

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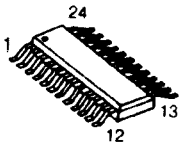

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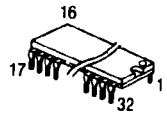

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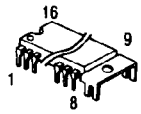

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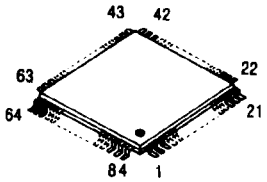

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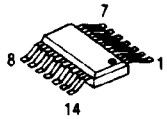

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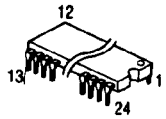

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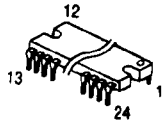

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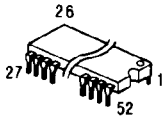

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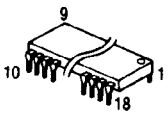

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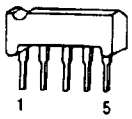

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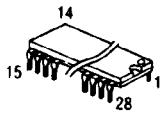

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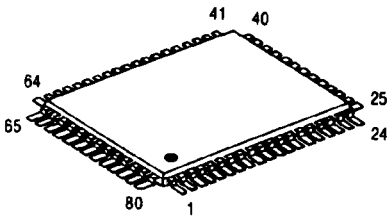

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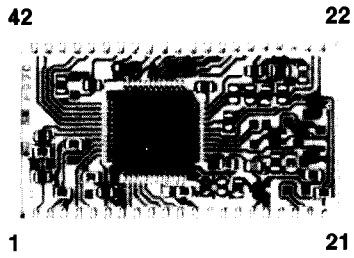

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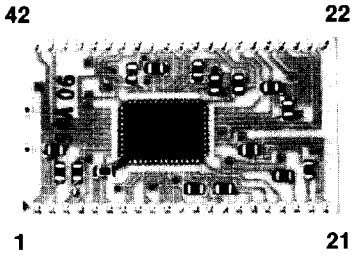

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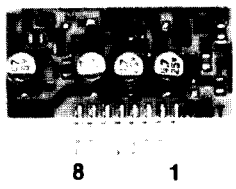

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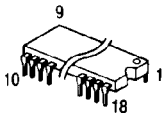

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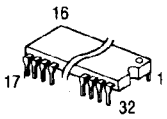

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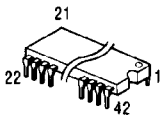

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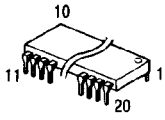

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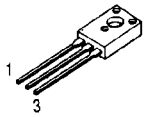

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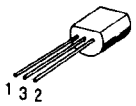

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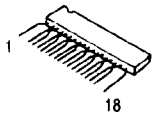

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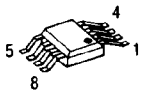

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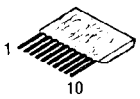

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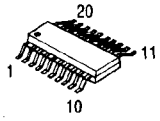

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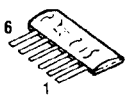

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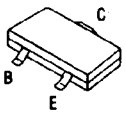

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2SC2404 2SD1757K
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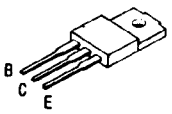
2SD601A MSC2295
2SD602 MSD601



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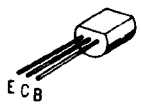

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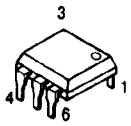

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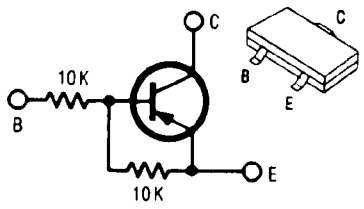

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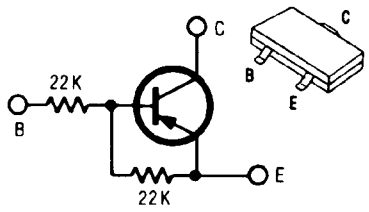

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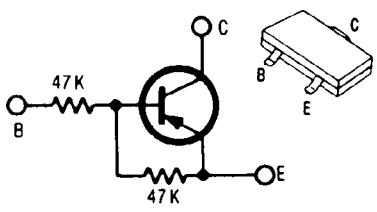

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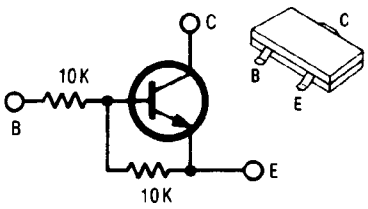

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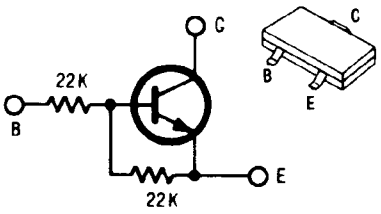

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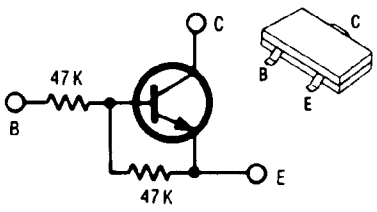

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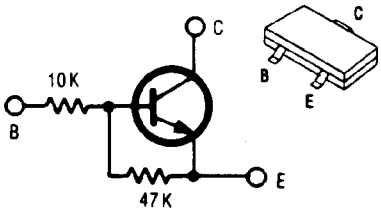

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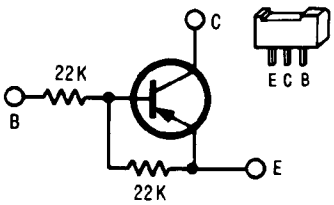

UN1112
UN6112
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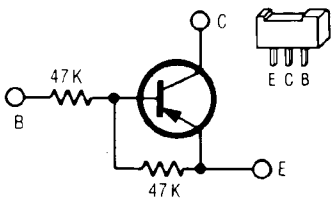

UN1113
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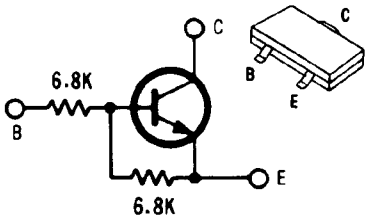

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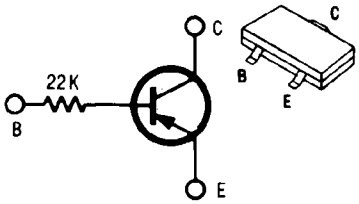

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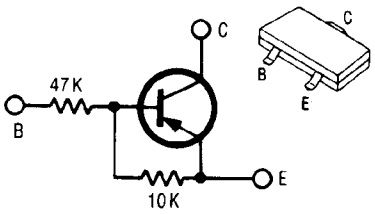

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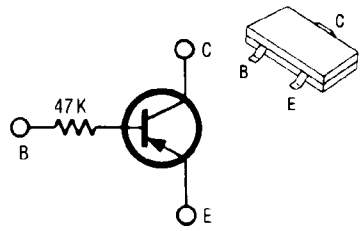
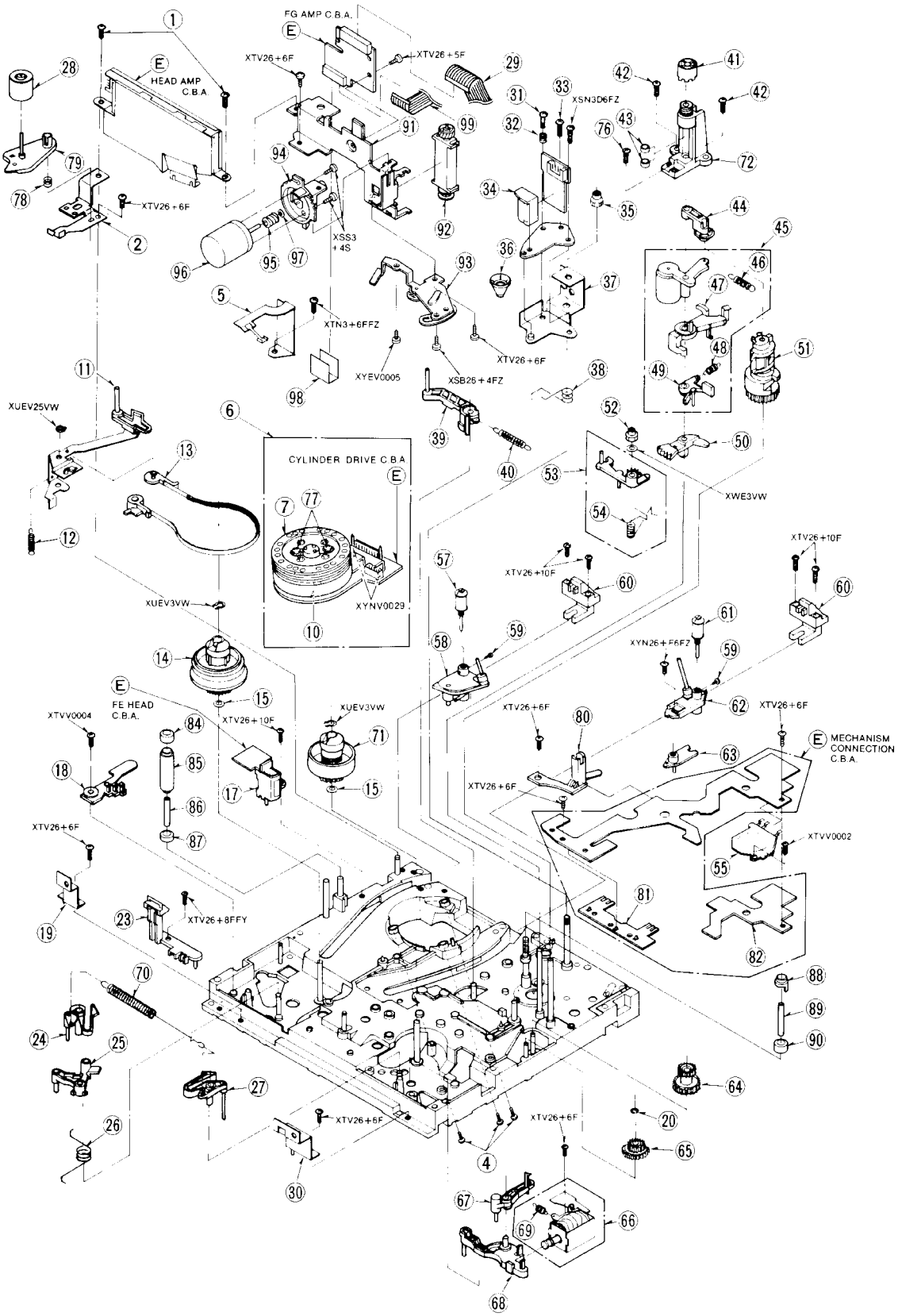


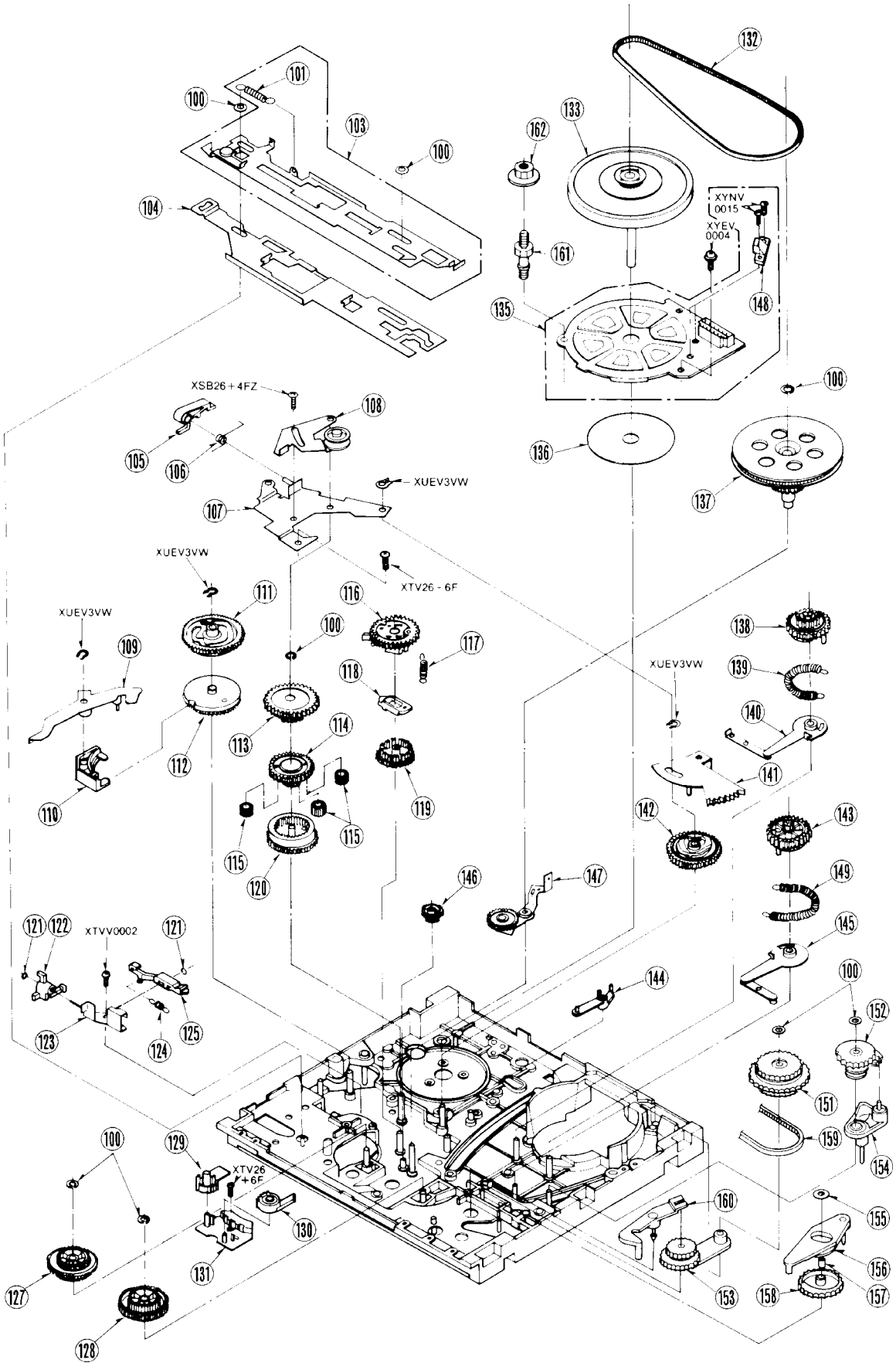
UN2110

SECTION 4
EXPLODED VIEWS & PARTS LIST

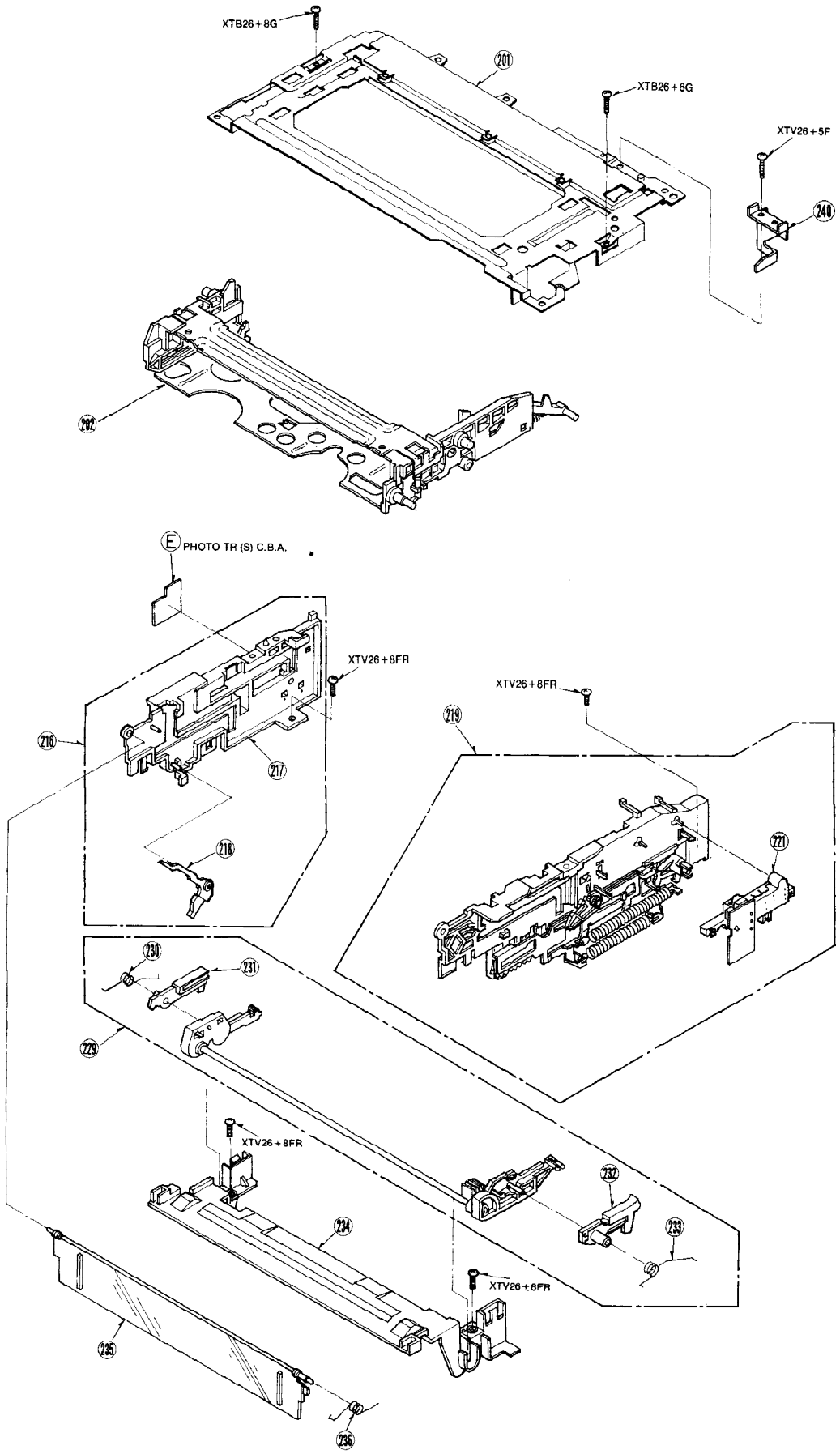
4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)



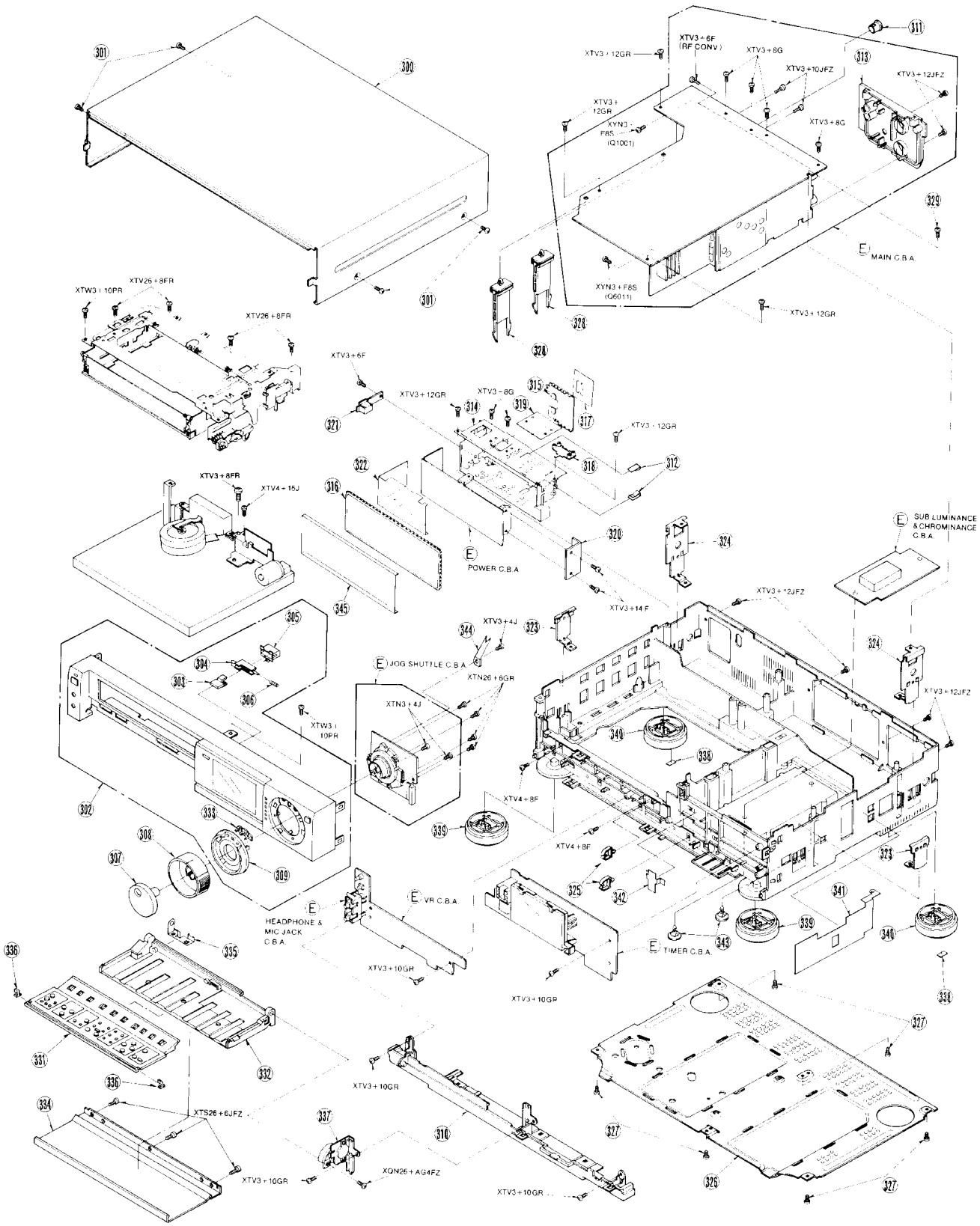
❷ CHASSIS PARTS SECTION (2)



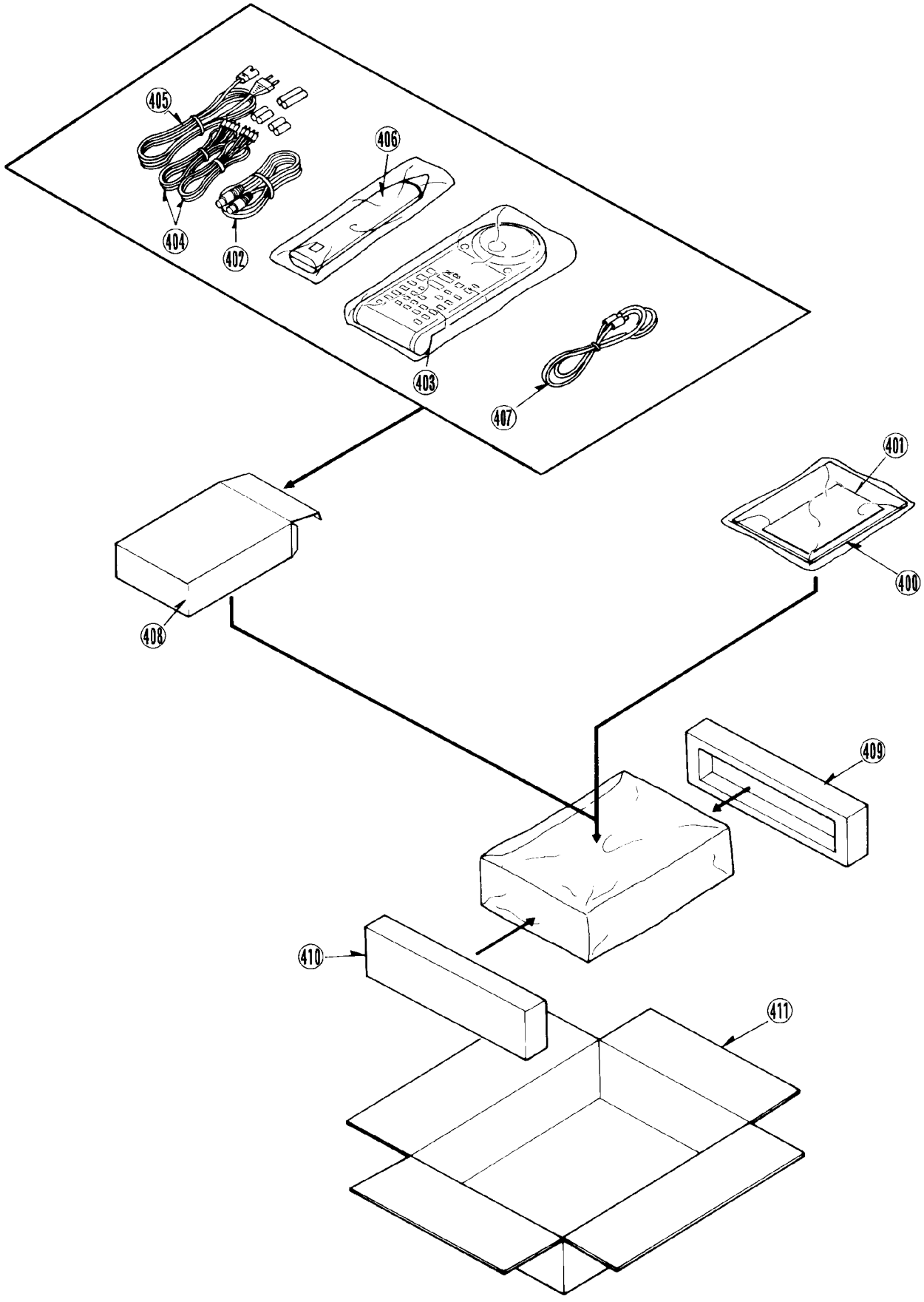
❸ CASSETTE UP MECHANISM SECTION



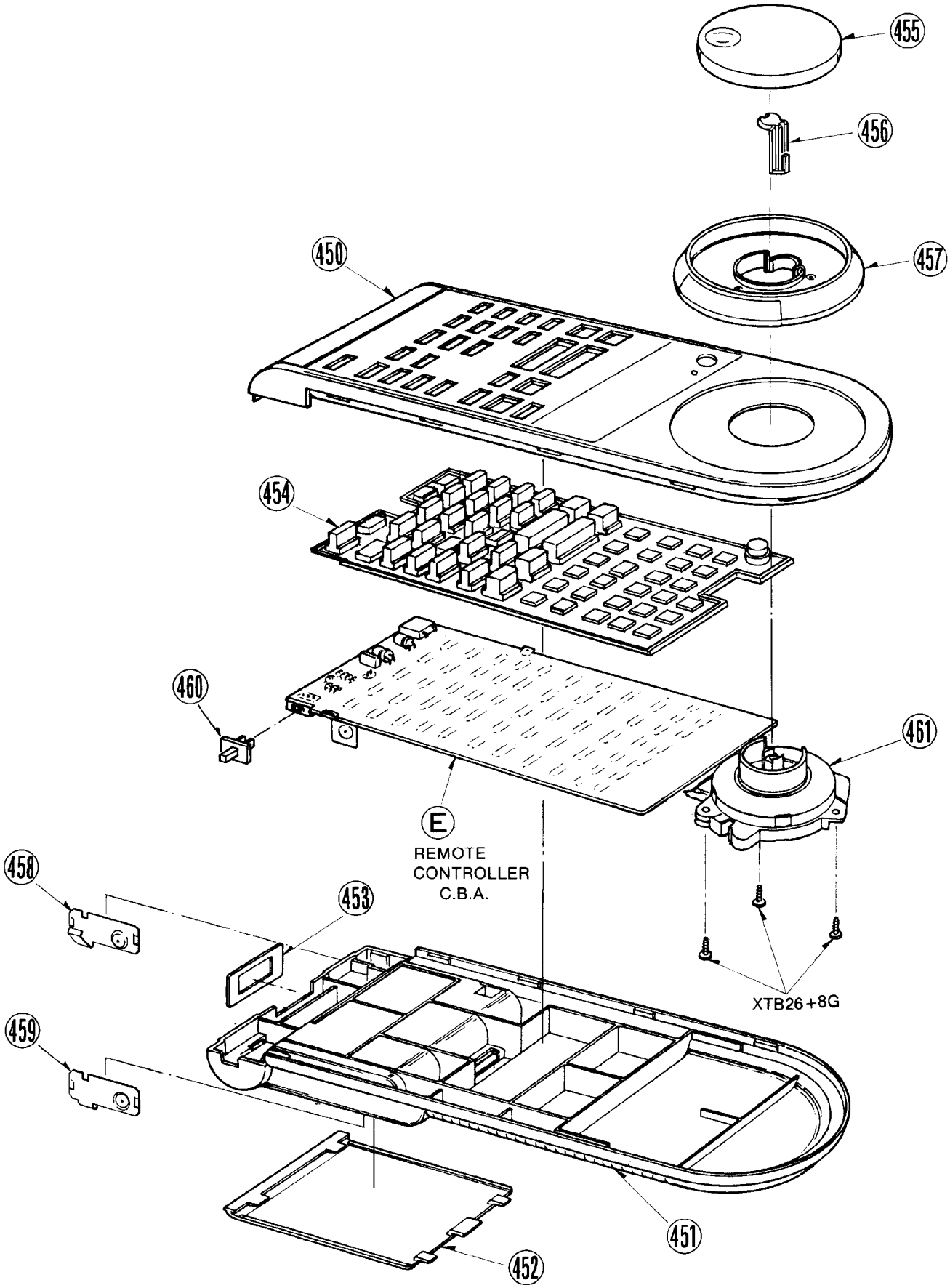
❹ CASING PARTS SECTION



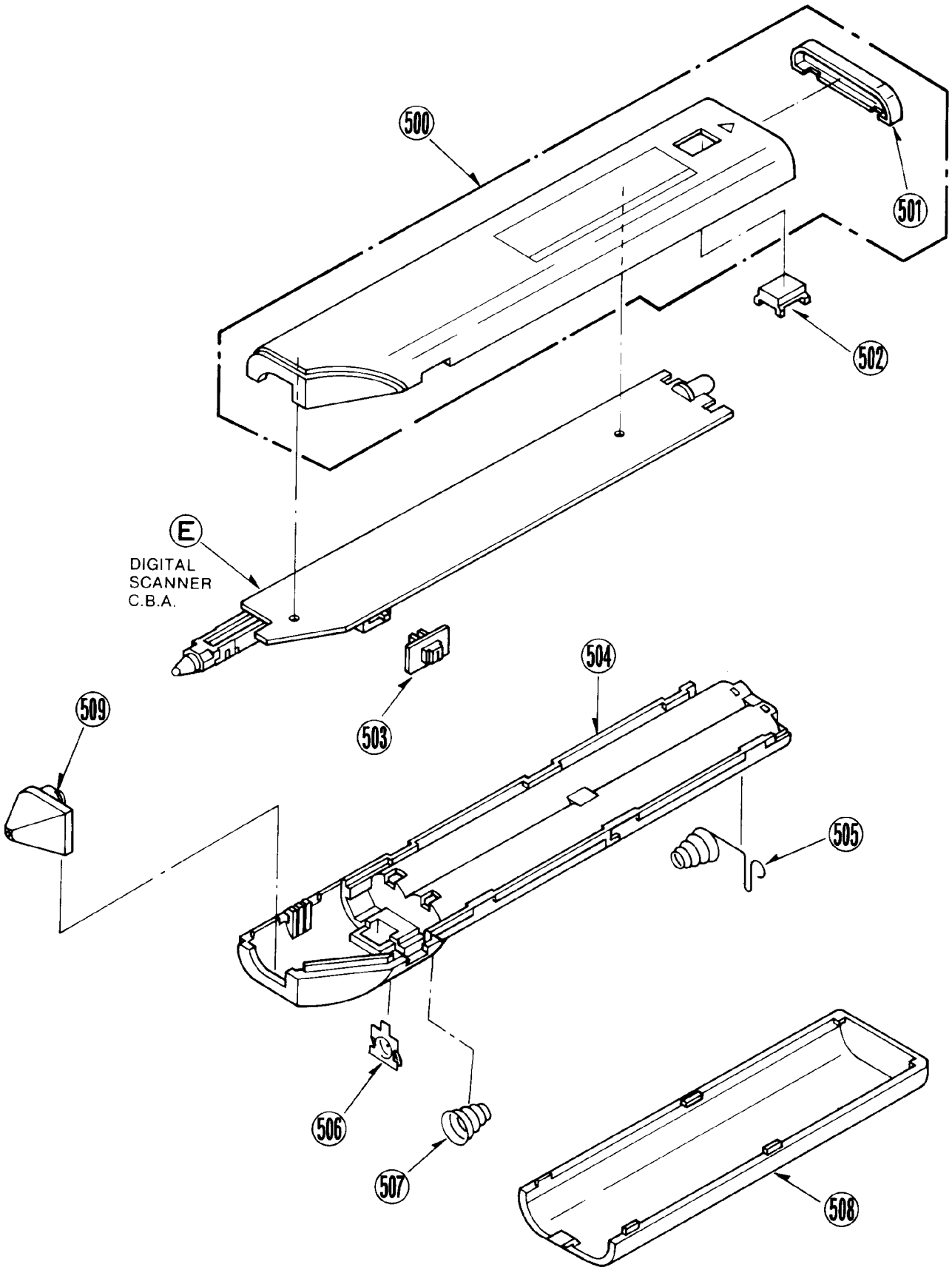
❺ PACKING PARTS SECTION



❻ REMOTE CONTROLLER UNIT



❼ DIGITAL SCANNER UNIT



4-2. MECHANICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VHD0418	HEAD AMP SET SCREW	2	
2(1)		VMA7174	HEAD AMP MOUNT ANGLE	1	
4(1)		VHD0342	CYLINDER SCREW	3	
5(1)		VXA2702	EARTH PLATE UNIT	1	
6(1)		VEG0769	CYLINDER UNIT	1	<!>
7(1)		VEH0467	UPPER CYLINDER UNIT	1	
10(1)		VSC2188	CYLINDER C.B.A.SHIELD PLATE	1	
11(1)		VXL1855	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0267	TENSION BAND UNIT	1	
14(1)		VXR0179	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER (0.5mm)	2	
15(1)		VMX1239	REEL WASHER (0.3mm)	2	
15(1)		VMX1238	REEL WASHER (0.2mm)	2	
17(1)		VBS0038	FE HEAD	1	
18(1)		VMD1316	TENSION SPRING HOOK	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	1	
23(1)		VES0486	SAFETY SW	1	
24(1)		VXZ0259	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0274	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0262	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXP1092	IMPEDANCE ROLLER UNIT	1	
29(1)		VWJ0392	FLEXIBLE CABLE(18P)	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VBR0132	A/C HEAD	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0110	ADJUST NUT	1	
37(1)		VMA7831	HEAD BASE	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1857	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	2	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1353	PINCH CAM CAP	1	
45(1)		VXL1858	PRESSURE ROLLER UNIT	1	
46(1)		VMB1941	PIN PRESSURE SPRING	1	
47(1)		VML2232	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE SPRING	1	
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0597	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0421	PINCH CAM	1	
52(1)		VHN0045	M3 NYLON NUT	1	
53(1)		VXL2027	P5 UNIT	1	
54(1)		VMB2718	P5 SPRING	1	
55(1)		VSS0175	MODE SW	1	
57(1)		VXP1093	ROLLER POST (S) UNIT	1	
58(1)		VXA4106	INCLIND BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
61(1)		VXP1094	ROLLER POST (T) UNIT	1	
62(1)		VXA3876	INCLIND BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)		VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0664	CONNECTION GEAR	1	
66(1)		VEK3347	SOLENOID UNIT	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VML2048	SOLENOID LEVER	1	
69(1)		VMB1553	KICK ROD SPRING	1	
70(1)		VMB2012	MAIN BRAKE SPRING	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
71(1)		VXR0176	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
76(1)		VHD0374	HOUSING SCREW	1	
77(1)		VHD0553	UPPER CYLINDER SCREW	2	
78(1)		VMB1741	IMPEDANCE ARM SPRING	1	
79(1)		VML2308	IMPEDANCE ROLLER ARM	1	
80(1)		VXA3520	LED HOLDER UNIT	1	
81(1)		VMA7829	REINFORCEMENT PLATE (F)	1	
82(1)		VMA7830	REINFORCEMENT PLATE (R)	1	
84(1)		VMX1088	SUPPLY UPPER LIMITER	1	
85(1)		VDP1304	SUPPLY ROLLER	1	
86(1)		VMX1581	P1 COLLAR	1	
87(1)		VMX1533	SUPPLY LOWER LIMITER	1	
88(1)		VMX1544	P4 UPPER LIMITER	1	
89(1)		VMX1568	P4 SLEEVE	1	
90(1)		VMX1534	P4 LOWER LIMITER	1	
91(1)		VMA7832	MOTOR MOUNT PLATE UNIT	1	
92(1)		VXA3517	WORM WHEEL BEARING UNIT	1	
93(1)		VXA4315	TENSION PULLEY BASE (A) UNIT	1	
94(1)		VXA3564	REEL MOTOR BRACKET UNIT	1	
95(1)		VXP1208	WORM GEAR UNIT	1	
96(1)		VEM0320	REV MOTOR	1	
97(1)		VMX1734	WORM WASHER	1	
98(1)		VWJ15TW050M	FLEXIBLE CADE (15P)	1	
99(1)		VWJ0357	FLEXIBLE CADE(15P)	1	
100(2)		VMX1079	CUT WASHER	8	
101(2)		VMB1883	SUB LEVER SPRING	1	
103(2)		VXA3510	SUB LEVER UNIT	1	
104(2)		VMM0204	MAIN LEVER	1	
105(2)		VXL2088	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA3512	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA3516	TENSION ROLLER UNIT	1	
109(2)		VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0574	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0422	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	3	
116(2)		VDG0547	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
127(2)		VXP1031	TAKE UP REEL GEAR UNIT	1	
128(2)		VXP0981	SUPPLY REEL GEAR UNIT	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0169	TIMING BELT	1	
133(2)		VXP1113	ROTOR UNIT	1	
135(2)		VEK4097	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP1050	CENTRE PULLEY UNIT	1	
138(2)		VDG0564	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING (T)	1	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA3515	SECTOR GEAR UNIT	1	
142(2)		VDG0516	LOADING CAM GEAR	1	
143(2)		VDG0419	LOADING GEAR (S)	1	
144(2)		VML2266	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0546	INTERMEDIATE GEAR	1	
147(2)		VXL1861	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	
149(2)		VMB1746	LOADING SPRING(S)	1	
151(2)		VXP1029	REVIEW CLUTCH UNIT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
152(2)	VXP1030	TENSION RELEASE CLUTCH UNIT	1	
153(2)	VXL1851	REVIEW ARM UNIT	1	
154(2)	VML2197	TENSION RELEASE LEVER	1	
155(2)	VMX1536	CUT WASHER	1	
156(2)	VML2233	SUB CAM FOLLOWER	1	
157(2)	VMX1495	RUBBER STOPPER	1	
158(2)	VDG0517	SUB LEVER CAM	1	
159(2)	VDV0199	REVIEW CLUTCH TIMING BELT	1	
160(2)	VML2200	REVIEW CONTROL LEVER	1	
161(2)	VHD0431	STATOR SPACER SCREW	1	
162(2)	VHN0102	STATOR NUT	1	
201(3)	VMA7223	TOP PLATE	1	
202(3)	VXA4325	CASSETTE HOLDER UNIT	1	
216(3)	VXA4357	SIDE PLATE (L) UNIT	1	
217(3)	VMD1726	SIDE PLATE (L)	1	
218(3)	VML1880	OPENER LEVER	1	
219(3)	VXA4076	SIDE PLATE (R) UNIT	1	
221(3)	VXA4642	SLIDE SW UNIT	1	
229(3)	VXP0987	MAIN SHAFT UNIT	1	
230(3)	VMB1836	SUB WIPER SPRING (L)	1	
231(3)	VML1878	SUB WIPER ARM (L)	1	
232(3)	VML1879	SUB WIPER ARM (R)	1	
233(3)	VMB1837	SUB WIPER SPRING (R)	1	
234(3)	VMA6900	CASSETTE GUIDE	1	
235(3)	VKF1212	BLINDER PANEL	1	
236(3)	VMB1258	BLINDER SPRING	1	
240(3)	VMA7224	CASSETTE HOLDER ANGLE	1	
300(4)	VYP3408	TOP PANEL UNIT	1	
301(4)	VHD0165	TOP PANEL SCREW	4	
302(4)	VYP3387	FRONT PANEL (1) UNIT	1	
303(4)	VGU4497	DOOR OPEN BUTTON	1	
304(4)	VGU4498	DOOR LOCK LEVER	1	
305(4)	VGU4829	LOCK LEVER HOLDER	1	
306(4)	VMB1963	LOCK LEVER SPRING	1	
307(4)	VXU1027	JOG KNOB UNIT	1	
308(4)	VGU5425	SHUTTLE KNOB	1	
309(4)	VGP2769	JOG/SHUTTLE DECORATION RING	1	
310(4)	VYF1496	SUPPORT PANEL UNIT	1	
311(4)	VGQ1421	SOCKET CAP	1	
312(4)	VMC0357	Tr. HOLDER SPRING	2	
313(4)	VJH0510	RF & ANT. BOARD	1	
314(4)	VXA3571	POWER SHIELD PLATE (MAIN)	1	
315(4)	VSC2397	POWER SHIELD PLATE (TOP)	1	
316(4)	VSC2237	POWER SHIELD PLATE (BOTTOM)	1	
317(4)	VGH1476	POWER NAME PLATE	1	
318(4)	VGQ1377	IC HOLDER	1	
319(4)	VMZ1224	INSULATION SHEET	1	<!>
320(4)	VSC2238	HEAT SINK	1	
321(4)	VMP1734	SCREW STOPPER ANGLE	1	
322(4)	VMZ1140	BARRIER	1	<!>
323(4)	VMP0442	TOP HOLDER ANGLE (FRONT)	2	
324(4)	VMP1855	TOP HOLDER ANGLE (REAR)	2	
325(4)	VJF0442	WIRE SADDLE	2	
326(4)	VKU0302	BOTTOM PLATE	1	
327(4)	VHD0059	BOTTOM PLATE SCREW	6	
328(4)	VKC0354	MAIN HINGE CLIP	1	
329(4)	VHD0418	MAIN SCREW	1	
331(4)	VES0591	KEY BOARD PANEL UNIT	1	
332(4)	VGP2501	DOOR PANEL	1	
333(4)	VGL0441	JOG PANEL LIGHT	1	
334(4)	VYC0441	DOOR ALUMINUM UNIT	1	
335(4)	VMC0612	PANEL EARTH SPRING	1	
336(4)	VMT0260	CUSHION RUBBER	2	
337(4)	VXU0878	DOOR GEAR UNIT	1	
338(4)	VKA0084	RUBBER FOOT	2	
339(4)	VKA0123	LEG (F)	2	
340(4)	VKA0124	LEG (R)	2	
341(4)	VXA3708	SHIELD PLATE UNIT	1	
342(4)	VMZ1407	TIMER BARRIER	1	
343(4)	VMX1798	C.B.A. SUPPORTER	2	
344(4)	VMC0729	JOG/SHUTTLE SPRING	1	
345(4)	VMZ1824	POWER BARRIER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
400(5)	VQT3931	OPERATING INSTRUCTIONS	1	<!>
		(ITALIAN)		
400(5)	VQT3936	OPERATING INSTRUCTIONS	1	<!>
		(ENGLISH/GERMAN)		
400(5)	VQT3937	OPERATING INSTRUCTIONS	1	<!>
		(FRENCH/DUTCH)		
401(5)	VQC1752	PROGRAMME SHEET	1	
402(5)	VJA0376	DIN RF CABLE	1	
403(5)	VEQ1211	REMOTE CONTROLLER UNIT	1	
404(5)	VJA0231	AUDIO CABLE	2	
405(5)	VJA0449	AC CORD	1	<!>
406(5)	VEQ0996	DIGITAL SCANNER UNIT	1	
407(5)	VJA0453	S-VIDEO 4P CABLE	1	
408(5)	VPK0834	ACCESSORIES PACKING	1	
409(5)	VPN2349	CUSHION (R)	1	
410(5)	VPN2348	CUSHION (L)	1	
411(5)	VPG5721	PACKING	1	
450(6)	VYK3558	TOP COVER UNIT	1	
451(6)	VKM2089	BOTTOM COVER	1	
452(6)	VKF1291	BATTERY COVER	1	
453(6)	VKW0878	IR WINDOW	1	
454(6)	VSP0565	RUBBER CONTACT	1	
455(6)	VGU5025	JOG KNOB	1	
456(6)	VMC0465	JOG SPRING	1	
457(6)	VGU5026	SHUTTLE KNOB	1	
458(6)	VJR0498	ELECTRODE (A)	1	
459(6)	VJR0509	ELECTRODE (B)	1	
460(6)	VGU5027	SELECT KNOB	1	
461(6)	VSQ0712	JOG/SHUTTLE ENCODER UNIT	1	
500(7)	VYK2644	TOP COVER UNIT	1	
501(7)	VKW0940	IR WINDOW	1	
502(7)	VGU4099	TRANSMISSION BUTTON	1	
503(7)	VGU4100	POWER SW KNOB	1	
504(7)	VKM1331	BOTTOM COVER	1	
505(7)	VJR0272	ELECTRODE (COMMON)	1	
506(7)	VJR0411	ELECTRODE (+)	1	
507(7)	VJR0412	ELECTRODE (-)	1	
508(7)	VKF1173	BATTERY COVER	1	
509(7)	VKM1332	SENSOR CAP	1	
		SERVICING FIXTURES & TOOLS		
	VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
	VFK0335	RETAINING RING REMOVER	1	
		(3mm/4mm)		
	VFK0387	TENSION POST ADJUSTMENT	1	
		PLATE		
	VFK0191	POST ADJUSTMENT PLATE	1	
	VFK0190	REEL TABLE HEIGHIT GAUGE	1	
	VFK0328	H-POSITION ADJUSTMENT	1	
		SCREWDRIVER		
	VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
	VFK62	FAN TYPE TENSION GAUGE	1	
	VFK0326	HEX WRENCH SET	1	
	VFK0132	BACK TENSION METER	1	
	VFK0343	CHECK LIGHT	1	
	VFK0344	HEIGHIT ADJUSTMENT FIXTURE	1	
	VFK27	HEAD CLEANING STICK	1	
	MOR265	MORLYTONE GREASE	1	
	VFK0341	UPPER CYLINDER REMOVER	1	
	VFK0582	8 PIN EXTENSION CABLE	1	
	VFK0583	9 PIN EXTENSION CABLE	1	
	VFK0584	11 PIN EXTENSION CABLE	1	
	VFK0585	12 PIN EXTENSION CABLE	1	
	VFK0586	15 PIN EXTENSION CABLE	1	

4-3. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1.000 OHMS. All capacitors are in MICRO-FARADS(uf),P=unF.
4.The P.C.Board units marked width'■'show below the main assembled parts.
5.Printed circuit board assembly with mark(NLA) is no longer available after discontinuation of the product.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03820A	MAIN C.B.A.	1	<!> (NLA)
					INCLUDING THE
					SERVO PACK C.B.A.
					(VEP02376A),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03634E),
					DDR SECAM PACK C.B.A.
					(VEP03673A),
					HQ PACK C.B.A.
					(VEP03635A),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03641G),
					TV DEMODULATOR PACK
					C.B.A.(VEP07596A),
					DECODER PACK C.B.A.
					(VEP07537C),
					VPS PACK C.B.A.
					(VEP07563A),
					Hi-Fi AUDIO PACK
					C.B.A. (VEP04285K),
					AUDIO EQULIZER PACK
					C.B.A. (VEP00P10A).
		VEP02376A	SERVO PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP03634E	LUMINANCE & CHROMINANCE	1	(NLA)
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP03673A	DDR SECAM PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP03635A	HQ PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP03641G	INPUT/OUTPUT PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP07596A	TV DEMODELATOR PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP07537C	DECODER PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP07563A	VPS PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP04285K	Hi-Fi AUDIO PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP00P10A	AUDIO EQULIZER PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03820A).
		VEP03821A	SUB LUMINANCE & CHROMINANCE	1	(NLA)
			C.B.A.		INCLUDING THE
					1H DELAY CCD PACK
					C.B.A.(VEP03680B).
		VEP03680B	1H DELAY CCD PACK C.B.A.	1	(NLA)
					INCLUDED IN
					SUB LUMINANCE &
					CHROMINANCE C.B.A.
					(VEP03821A).
		VEP05149C	HEAD AMP C.B.A.	1	(NLA)
		VEP06731B	VR C.B.A.	1	(NLA)
					INCLUDING THE
					HEAD PHONE & MIC JACK
					C.B.A.(VEP00R22A).
		VEP00R22A	HEAD PHONE & MIC JACK	1	(NLA)
			C.B.A.		INCLUDED IN VR C.B.A.
					(VEP06731B).
		VEP07622C	TIMER C.B.A.	1	(NLA)
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06552A).
		VEP06552A	IR RECEIVER C.B.A.	1	(NLA)
					INCLUDED IN TIMER
					C.B.A. (VEP07622C).
		VEP06537A	JOG SHUTTLE C.B.A.	1	(NLA)
		VEP01353N	POWER C.B.A.	1	<!> (NLA)
		VEX0117	CYLINDER DRIVE C.B.A.	1	(NLA)
		VEP00K88C	FE HEAD C.B.A.	1	(NLA)
		VEP00M86A	FG AMP C.B.A.	1	(NLA)
		VXA3625	MECHANISM CONNECTION C.B.A.	1	(NLA)
		VEK3578	PHOTO Tr.(S) C.B.A.	1	(NLA)
		-----	PHOTO Tr.(T) C.B.A.	1	
		VEP66151B	REMOTE CONTROLLER C.B.A.	1	(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP66077C	DIGITAL SCANNER C.B.A.	1	(NLA)
		XBA2C12TB0	FUSE	1	<!>
		XBA2C16TB0	FUSE	1	<!>
	■	VEP03820A	MAIN C.B.A.		<!> (NLA)
			CONNECTORS		
BP3002		VJS1259	CONNECTOR(FEMALE)	1	
BP3003		VJS1258	CONNECTOR(FEMALE)	1	
BP3008		VJP1260	CONNECTOR(MALE)	1	
			CAPACITORS		
C301		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C302-04		ECEA1CK100	E.CAPACITOR 16V 10U	3	
C305		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C306		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C307		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C308		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C309		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C311		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C312		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C313		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C316		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C317		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C318		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C320		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C322		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C324		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C325		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C326		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C329		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C330		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C332		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C333		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C334		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C335		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C336		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C337		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C338,39		ECEA0JK220	E.CAPACITOR 6.3V 22U	2	
C341		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C342		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C344		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C345		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C346		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C348		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C349		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C701		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C707		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C727		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JFN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C775		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C781		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C790		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C802		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C803,04		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C805		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C806		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C807		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C808		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C810		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C811		ECQV1HB23JZ	P.CAPACITOR 50V 0.082U	1	
C812		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C813		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C814		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C815		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C817		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C819		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C821		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C823		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C824		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C825		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C826		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C827		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C828		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C832		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C833		ECRHA020D41	TRIMMER	1	
C834		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C835		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C851		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C852		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C853		ECEA1AFS470	E.CAPACITOR 10V 47U	1	
C854		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C855		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C856		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C859		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C1001		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C1002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C1003		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C1004		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C1005		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C1006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C1007,08		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2	
C1009		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C1010		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C1011		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C1012		ECEA1HU470	E.CAPACITOR 50V 47U	1	
C1013		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C1014		ECEA1VFE820	E.CAPACITOR 35V 82U	1	
C2001		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C2002		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2201		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2204		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2205		ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C2206		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2207		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2208		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2209		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2210		ECQB1H332JH	P.CAPACITOR 50V 3300P	1	
C2211		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C2212		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2213		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2214		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2215		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2216		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2217		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2218		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2219		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2220		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2221		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2222		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2223		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2224		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C2225		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2226		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2227,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2229		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C2230		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C2231		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2232		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C2233-35		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2236		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2237-39		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2240		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2241		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2242		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C2243		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2244		ECSF1CE105	T.CAPACITOR 16V 1U	1	
C2245		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2246		ECEA10M47	E.CAPACITOR 10V 47U	1	
C2247		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2248,49		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	2	
C2250		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2251		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2262		VCYD1C333MR1	S.CAPACITOR 16V 0.033U	1	
C2263		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2264		ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2265		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2266		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C2267,68		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	2	
C2269		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2270		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2271		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2272		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2273		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2274		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2311		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C2312,13		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C3001		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3002,03		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C3004-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3012		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3013		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3014		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3015		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3016		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3018		ECEA1AKN470	E.CAPACITOR 10V 47U	1	
C3019		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3020		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3021		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3022		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3024		ECEA1AU471	E.CAPACITOR 10V 470U	1	
C3025		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3026		ECEA1AU471	E.CAPACITOR 10V 470U	1	
C3028		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3032,33		ECEA1CK101	E.CAPACITOR 16V 100U	2	
C3034		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3035		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3036		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3038		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3039,40		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3041,42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3043		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C3044		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3045		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3046		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3047		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3048		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3049		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3051		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3052		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3301		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C3302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3303		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3304		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3305		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3306		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3307		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3308,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3310,11		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C3312,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3314		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3315		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C3316		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3317		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3318		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3319		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3321		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C3322		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C3323		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3324		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3351-53		ECEA1CK100	E.CAPACITOR 16V 10U	3	
C3354,55		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3913		ECEA1CU331	E.CAPACITOR 16V 330U	1	
C3914		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3915		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3916-19		ECEA1CK220	E.CAPACITOR 16V 22U	4	
C4001		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4004		ECQP1222JZ	P.CAPACITOR 0.0022U	1	
C4005		ECCD2H121J	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C4007		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C4014		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C4015		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA10M22	E.CAPACITOR 10V 22U	1	
C4018		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C4022		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C4023		ECUM1H221JN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4027		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C4028		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4101		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4103		ECEA1HPK010	E.CAPACITOR 50V 1U	1	
C4104		ECEA1APK101	E.CAPACITOR 10V 100U	1	
C4106		ECEA1APK470	E.CAPACITOR 10V 47U	1	
C4107		ECEA1HPK010	E.CAPACITOR 50V 1U	1	
C4108		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C4110,11		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C4112		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C4114,15		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C4118		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4121		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C4122		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4123		ECUM1H221KBN	C.CAPACITOR CH 50V 220P	1	
C4124		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4125		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C4126		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4127-30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C4131		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C4133		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C4139		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C4140		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C4201		ECQV1H333JZ	P.CAPACITOR 50V 0.033U	1	
C4202		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C4203		ECQB1H682JH	P.CAPACITOR 50V 6800P	1	
C4204		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C4205		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4501		ECEA1HB24R7	E.CAPACITOR 50V 4.7U	1	
C4502		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4503		ECQB1H102JA	P.CAPACITOR 50V 1000P	1	
C4504		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4505		ECQB1H682JA	P.CAPACITOR 50V 6800P	1	
C4506		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4507		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EPH4R7	E.CAPACITOR 25V 4.7U	1	
C4509		VCEA1CAH470	E.CAPACITOR 16V 47U	1	
C4510		ECQB1H103JA	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4512		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4513,14		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C4515		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4516		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4517		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4518,19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4520		VCEA1CAH100	E.CAPACITOR 16V 10U	1	
C4521		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4522		ECEA1HPZ3R3	E.CAPACITOR 50V 3.3U	1	
C4523		ECUM1H122JN	C.CAPACITOR CH 50V 1200P	1	
C4524		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4525		ECEA1CPZ220	E.CAPACITOR 16V 22U	1	
C4526		VCEA1CAH470	E.CAPACITOR 16V 47U	1	
C4527		VCEA1AAE101	E.CAPACITOR 10V 100U	1	
C4528		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C4529		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4530		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4531		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C4532		ECEA1CPZ471	E.CAPACITOR 16V 470U	1	
C4533		ECEA1CPZ221	E.CAPACITOR 16V 220U	1	
C4534		VCEA1AAH101	E.CAPACITOR 10V 100U	1	
C4535		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4537		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4538		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4539		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C4540-42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C4543		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4544		ECQB1H222JZ	P.CAPACITOR 50V 2200P	1	
C4545		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C4551		ECEA1HB24R7	E.CAPACITOR 50V 4.7U	1	
C4552		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4553		ECQB1H102JA	P.CAPACITOR 50V 1000P	1	
C4554		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4555		ECQB1H682JA	P.CAPACITOR 50V 6800P	1	
C4556		VCEA1EAE100	E.CAPACITOR 25V 10U	1	
C4557		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4558		ECEA1EPH4R7	E.CAPACITOR 25V 4.7U	1	
C4559		VCEA1CAH470	E.CAPACITOR 16V 47U	1	
C4560		ECQB1H103JA	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4562		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4563,64		ECUM1H102JN	C.CAPACITOR CH 50V 1000P	2	
C4565		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4566		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4567		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4568,69		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4570		VCEA1CAH100	E.CAPACITOR 16V 10U	1	
C4572		ECEA1HPZ3R3	E.CAPACITOR 50V 3.3U	1	
C4573		ECUM1H122JN	C.CAPACITOR CH 50V 1200P	1	
C4574,75		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C4576		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4903,04		ECUM1H101KN	C.CAPACITOR CH 50V 100P	2	
C4907,08		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4909,10		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4911,12		ECUM1H101KN	C.CAPACITOR CH 50V 100P	2	
C4913,14		ECQB1H682JH	P.CAPACITOR 50V 6800P	2	
C4915,16		ECQB1H183JH	P.CAPACITOR 50V 0.018U	2	
C4918		VCEA1HAC3R3	E.CAPACITOR 50V 3.3U	1	
C4920,21		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4922		VCEA1AAC221	E.CAPACITOR 10V 220U	1	
C4923		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4924-26		ECEA1HKZR2	E.CAPACITOR 50V 2.2U	3	
C4927		VCEA1AAC101	E.CAPACITOR 10V 100U	1	
C4928		VCEA1CAC101	E.CAPACITOR 16V 100U	1	
C4929		VCEA1VAC470	E.CAPACITOR 35V 47U	1	
C4930,31		VCEA1HAC010	E.CAPACITOR 50V 1U	2	
C4932		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4933		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4936		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5002		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C5003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5004		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C5005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5006		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C5007		ECUM1H391JN	C.CAPACITOR CH 50V 390P	1	
C5008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5009		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C5010		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C5011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5012		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C5013		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5014		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5015,16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5017		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C5018-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C5021		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C5022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5023,24		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C5025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5026		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C5027,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5030		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5032		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C5033		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5035		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C5036		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
C5037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5038		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C5039		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C5040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5041		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5042		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C6001		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6002		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6003		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6004		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6005		ECUM1H151KBN	C.CAPACITOR CH 50V 150P	1	
C6006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C6007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6008		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C6010,11		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6012		ECEA1AK330	E.CAPACITOR 10V 33U	1	
C6013,14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6015		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	1	
C6016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6017		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6018,19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6020-23		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	4	
C6024-28		ECUM1H221KBN	C.CAPACITOR CH 50V 220P	5	
C6029		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C6030		ECEA1CU222	E.CAPACITOR 16V 2200U	1	
C6033		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C6034		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C6037,38		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6039		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6041		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6043		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6044	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6045	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6046	ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C6047	ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C7302	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303	ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7304	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305	ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306	ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7307	ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C7308	ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7309	ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310	ECEA16M10	E.CAPACITOR 16V 10U	1	
C7311	ECEA50MR47	E.CAPACITOR 50V 0.47U	1	
C7312	ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7313	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7314	ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7315	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7316	ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7317	ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7319	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7320.21	ECEA1CK100	E.CAPACITOR 16V 10U	2	
C7322	ECEA1CK220	E.CAPACITOR 16V 22U	1	
C7323,24	ECQV1H393JZ	P.CAPACITOR 50V 0.039U	2	
C7325	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7331	ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C7332,33	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C7334	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7335	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7336	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7337	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C7338	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7339	ECQB1H103KZ	P.CAPACITOR 50V 0.01U	1	
C7340	ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C7342	ECQB1H183JZ3	F.CAPACITOR 50V 0.018U	1	
C7343	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7344	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7345	ECQB1H103KZ	P.CAPACITOR 50V 0.01U	1	
C7346	ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C7348	ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7651	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653	ECQB1H332JH	P.CAPACITOR 50V 0.27U	1	
C7668	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7685	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7801	ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1	
C7802	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C7803	ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C7804	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7805	ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7806	ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C7815	VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C7816	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C7851	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7852	ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7853,54	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C7855,56	ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7860	ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C8301,02	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8303	ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C8304,05	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8306	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C8307,08	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8309	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8310	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8311	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C8312	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8313	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8314	ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C8315	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
		DIODES		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D710	MA3100L	DIODE	1	
D773	11ES1	DIODE	1	
D801	MA151K	DIODE	1	
D802	MA151WA	DIODE	1	
D803	MA151A	DIODE	1	
D1001	AK04	DIODE	1	
D1003,04	MA723	DIODE	2	
D1005	MA165	DIODE	1	
D1010,11	MA165	DIODE	2	
D1015	1SS254	DIODE	1	
D1020	1SS254	DIODE	1	
D2201-04	MA165	DIODE	4	
D2205	MA4056M	DIODE	1	
D2212	MA165	DIODE	1	
D2216,17	MA165	DIODE	2	
D2220	MA723	DIODE	1	
D2306,07	MA165	DIODE	2	
D3001-03	MA165	DIODE	3	
D3004	MA723	DIODE	1	
D3006	MA165	DIODE	1	
D3015	1SS254	DIODE	1	
D3301	MA151K	DIODE	1	
D3302	MA3091M	DIODE	1	
D3306	MA151K	DIODE	1	
D3901,02	MA165	DIODE	2	
D4003	MA165	DIODE	1	
D4101	MA165	DIODE	1	
D4104	MA165	DIODE	1	
D4108	MA4047M	DIODE	1	
D4202	MA165	DIODE	1	
D5001	MA151K	DIODE	1	
D6001	MA165	DIODE	1	
D6003-05	MA165	DIODE	3	
D6007-16	MA165	DIODE	10	
D6017	MA4091M	DIODE	1	
D6019-22	MA165	DIODE	4	
D6025	AK04	DIODE	1	
D6026	MA165	DIODE	1	
D6027	MA4075M	DIODE	1	
D6029	MA154WK	DIODE	1	
D6032	MA165	DIODE	1	
D6033	MA723	DIODE	1	
D6035-38	MA156	DIODE	4	
D7302	MA151A	DIODE	1	
D7303	MA28WA	DIODE	1	
D7672,73	MA315CH	DIODE	2	
D7851	MA151K	DIODE	1	
D8301	MA151K	DIODE	1	
D8303	MA151WK	DIODE	1	
		DELAY LINES		
DL801	VLD0147	DELAY LINE	1	
DL8301	VLD0089	DELAY LINE	1	
		FILTERS		
FL301	ELB4L121	FILTER	1	
FL302	VLF0499	FILTER	1	
FL303	VLF0639	FILTER	1	
FL304	ELB4M022	FILTER	1	
FL801	VLF0299	FILTER	1	
FL851	VLF0143	FILTER	1	
FL3301	VLF0413	FILTER	1	
FL3302	ELB4R049	FILTER	1	
FL4502	VLF0406	FILTER	1	
FL4503	VLF0697	FILTER	1	
FL5001	ELB5A066	FILTER	1	
FL5002	ELB4K114	FILTER	1	
FL5003	ELB4R031	FILTER	1	
FL5004	ELB4K114	FILTER	1	
		INTEGRATED CIRCUITS		
IC301	VEFH07C	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC302		M52055FP	IC	1	
IC303		VEFH05BT	IC	1	
IC304		NJM2233BMA	IC	1	
IC701		M51366SP	IC	1	
IC801		VCR0284	IC	1	
IC851		BA7025L	IC	1	
IC2201		AN3726K	IC	1	
IC2202		MN4013BS	IC	1	
IC2203		MN1280R	IC	1	
IC2204		UPD4052BG	IC	1	
IC2205		MN6742VCSK	IC	1	
IC2206		XRA6435S	IC	1	
IC2303		UPC393G2	IC	1	
IC3001		M52055FP	IC	1	
IC3002		VCR0281	IC	1	
IC3301		AN3495K	IC	1	
IC3302		MSM6871RS	IC	1	
IC3307		BA7004	IC	1	
IC3901		M51292FP	IC	1	
IC4001		BA7766AS	IC	1	
IC4101		RC4560DD	IC	1	
IC4102		AN3912	IC	1	
IC4501		BA7705K1	IC	1	
IC4502		UPC78L05J	IC	1	
IC4901		M51293FP	IC	1	
IC4902		UPC78L06J	IC	1	
IC4903		AN79N06	IC	1	
IC5001		M52054SP	IC	1	
IC5002		AN6308S	IC	1	
IC6001		MN188166VDU	IC	1	
IC6002		MN1280R	IC	1	
IC6003		MC14011BF	IC	1	
IC6004		LM339N	IC	1	
IC6005		AN6609N	IC	1	
IC6006		LM393PS	IC	1	
IC6007		MC14519BF	IC	1	
IC7301		TDA3803A	IC	1	
IC7302,03		AN5215	IC	2	
IC7801		SAA4700	IC	1	
IC7851		MN158413VSSY	IC	1	
IC7852		MN1280S	IC	1	
			CONNECTORS		
J701		VJR0231	PACK PIN	1	
J702,03		VJR0406	PACK PIN	2	
J704		VJR0231	PACK PIN	1	
J3901		VJS1470	CONNECTOR(FEMALE)	1	
J7301,02		VJR0189	PACK PIN	2	
			RESISTOR		
K3		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
			PACK PIN		
KR851		VJR0163	PACK PIN	1	
			COILS		
L302		VLQEL06F101K	COIL 100UH	1	
L303		VLQEL05F680K	COIL 68UH	1	
L304		VLQEL05F560K	COIL 56UH	1	
L305-08		VLQEL05F101K	COIL 100UH	4	
L310		VLQEL05F220K	COIL 22UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L711		ELQTR68XB	COIL 0.68UH	1	
L712		VLQ0305J1R2	COIL 1.2UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L716		ELESP560KA	COIL 56H	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L801-03		VLQEL05F101K	COIL 100UH	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F150K	COIL 15UH	1	
L809,10		VLQEL05F681K	COIL 680UH	2	
L811		VLQEL05F331K	COIL 330UH	1	
L812		VLQEL05F470K	COIL 47UH	1	
L814		VLQEL05F330J	COIL 33UH	1	
L851		VLQEL05F101K	COIL 100UH	1	
L1001,02		ELESP101KA	COIL 100UH	2	
L1010		VLQEL05F102K	COIL 1000UH	1	
L2002		VLP0099	COIL	1	
L2201-03		VLQEL05F101K	COIL 100UH	3	
L2204		VLQEL05F102K	COIL 1000UH	1	
L3005		VLQEL05F151K	COIL 150UH	1	
L3006		VLQEL05F820K	COIL 82UH	1	
L3007,08		VLQEL05F101K	COIL 100UH	2	
L3009		VLQ0398	COIL	1	
L3010		VLQEL05F681K	COIL 680UH	1	
L3301-03		VLQEL05F101K	COIL 100UH	3	
L3309		VLQEL05F101K	COIL 100UH	1	
L3312		VLQEL05F101K	COIL 100UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L4003		ELESP101KA	COIL 100UH	1	
L4102		VLQEL05F1R0K	COIL 1UH	1	
L4104		VLQEL05F101K	COIL 100UH	1	
L4105		VLP0085	FILTER	1	
L4201		VLQEL07F153J	COIL 15mH	1	
L4501,02		ELESP101KA	COIL 100UH	2	
L4503		VLQ0422	COIL	1	
L4901-04		VLQEL05F102K	COIL 1000UH	4	
L4905,06		VLQEL05F101K	COIL 100UH	2	
L4907		VLQ0407102K	COIL 1000UH	1	
L5001		VLQEL05F101K	COIL 100UH	1	
L5002		VLQEL05F181K	COIL 180UH	1	
L5003		VLQEL05F270K	COIL 27UH	1	
L5004,05		VLQEL05F5R6K	COIL 5.6UH	2	
L5006		VLQEL05F120K	COIL 12UH	1	
L5007		VLQEL05F101K	COIL 100UH	1	
L5008,09		VLQEL05F100K	COIL 10UH	2	
L5010		VLQEL05F220K	COIL 22UH	1	
L5012,13		VLQEL05F101K	COIL 100UH	2	
L7301		ELESP102KA	COIL 1000UH	1	
L7302		ELESP680KA	COIL 68UH	1	
L7304		VTQ0014	COIL	1	
L8301		VLQEL05F101K	COIL 100UH	1	
L8302,03		VLQEL05F150K	COIL 15UH	2	
L8304		VLQEL05F270K	COIL 27UH	1	
L8305		VLQEL05F151K	COIL 150UH	1	
			CONNECTORS		
P001		VJS1738	CONNECTOR	1	
P501		VJS1237T	CONNECTOR(FEMALE)	1	
P551		VJS1236T	CONNECTOR(FEMALE)	1	
P1001		VJS2571A014	CONNECTOR	1	
P1502		VJS1141	CONNECTOR(FEMALE)	1	
P2001		VJP1242T	CONNECTOR(MALE) 2P	1	
P2002		VJF0093	CONNECTOR	1	
P2201		VJP1245T	CONNECTOR(MALE) 5P	1	
P2201		VJS1738	CONNECTOR	1	
P2202		VJS1666	CONNECTOR(FEMALE)	1	
P2203		VJP1148	CONNECTOR	1	
P2203		VJS1141T	CONNECTOR(FEMALE)	1	
P3001		VJP1237T	CONNECTOR(MALE) 10P	1	
P3001		VJS1237T	CONNECTOR(FEMALE)	1	
P3002		VJP1235T	CONNECTOR(MALE) 8P	1	
P3003		VJP1234T	CONNECTOR(MALE) 7P	1	
P3201		VJP1244T	CONNECTOR(MALE) 4P	1	
P3201		VJS1231T	CONNECTOR(FEMALE)	1	
P3301		VJS2651B008Z	CONNECTOR	1	
P3302		VJS2651B007Z	CONNECTOR	1	
P3502		VJS1236T	CONNECTOR(FEMALE)	1	
P3503		VJS1235T	CONNECTOR(FEMALE)	1	
P3508		VJS1234T	CONNECTOR(FEMALE)	1	
P3509		VJS1231T	CONNECTOR(FEMALE)	1	
P4001		VJP1231T	CONNECTOR(MALE) 4P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P4002	VJP1236T	CONNECTOR(MALE) 9P	1	
P4002	VJS1236T	CONNECTOR(FEMALE)	1	
P4003	VJP1236T	CONNECTOR(MALE) 9P	1	
P4003	VJS1236T	CONNECTOR(FEMALE)	1	
P4004	VJP1229T	CONNECTOR(MALE) 2P	1	
P4004	VJS1229T	CONNECTOR(FEMALE)	1	
P4901	VJP1242T	CONNECTOR(MALE) 2P	1	
P4901	VJS1229	CONNECTOR	1	
P6001	VJS1663	CONNECTOR(FEMALE)	1	
P6002	VJS2571A004	CONNECTOR(FEMALE)	1	
P6003	VJP1393T	CONNECTOR(MALE) 13P	1	
P6003	VJS2381	CONNECTOR(FEMALE)	1	
P6501	VJS1236T	CONNECTOR(FEMALE)	1	
P6503	VJS2381	CONNECTOR(FEMALE)	1	
P6504	VJS1230	CONNECTOR	1	
P7401	VJS2571A013	CONNECTOR(FEMALE)	1	
P7402,03	VJS2571A011	CONNECTOR(FEMALE)	2	
P7404	VJS2571A008	CONNECTOR(FEMALE)	1	
		PACK PINS		
PK1	VJR0189	PACK PIN	1	
PK2201	VJP1865	CONNECTOR(MALE)	1	
PK2201	VJS1865	CONNECTOR(FEMALE)	1	
PK2202	VJP1865	CONNECTOR(MALE)	1	
PK2202	VJS1865	CONNECTOR(FEMALE)	1	
PK2203	VJP1861	CONNECTOR(MALE)	1	
PK2203	VJS1861	CONNECTOR(FEMALE)	1	
PK2204	VJP1859	CONNECTOR(MALE)	1	
PK2204	VJS1859	CONNECTOR(FEMALE)	1	
PK3011	VJP1862	CONNECTOR(MALE)	1	
PK3011	VJS1862	CONNECTOR(FEMALE)	1	
PK3012	VJP1862	CONNECTOR(MALE)	1	
PK3012	VJS1862	CONNECTOR(FEMALE)	1	
PK3013	VJP1861	CONNECTOR(MALE)	1	
PK3013	VJS1861	CONNECTOR(FEMALE)	1	
PK3021	VJP1858	CONNECTOR(MALE)	1	
PK3021	VJS1858	CONNECTOR(FEMALE)	1	
PK3022	VJP1865	CONNECTOR(MALE)	1	
PK3022	VJS1865	CONNECTOR(FEMALE)	1	
PK4201	VJR0231	PACK PIN	1	
PK4501	VJR0477	PACK PIN	1	
PK4502,03	VJR0290	PACK PIN	2	
		TRANSISTORS		
Q301	2SD601	TRANSISTOR CHIP	1	
Q302	2SC2295	TRANSISTOR	1	
Q703	2SD601	TRANSISTOR	1	(S,T)
Q710	2SC2377	TRANSISTOR	1	(C,D)
Q712	2SD638	TRANSISTOR	1	
Q771	2SD601	TRANSISTOR CHIP	1	(S,T)
Q801	2SB709	TRANSISTOR CHIP	1	
Q804	2SD601	TRANSISTOR CHIP	1	
Q1001	2SC4024LF	TRANSISTOR	1	
Q1002	2SD601	TRANSISTOR CHIP	1	
Q1003	2SD601A	TRANSISTOR	1	
Q1004	2SD1330	TRANSISTOR	1	
Q1005	2SD1330	TRANSISTOR	1	(S,T)
Q1007	MSD601	TRANSISTOR	1	
Q1010	MSD601	TRANSISTOR	1	
Q2201	2SD601	TRANSISTOR CHIP	1	
Q2202	2SC2295	TRANSISTOR	1	
Q2203	2SD602	TRANSISTOR CHIP	1	
Q2204-09	2SD601	TRANSISTOR CHIP	6	
Q2301	2SD601	TRANSISTOR CHIP	1	
Q3001	2SD602	TRANSISTOR	1	
Q3003	2SC2295	TRANSISTOR	1	
Q3004	2SB709	TRANSISTOR CHIP	1	
Q3005-07	2SD601	TRANSISTOR CHIP	3	
Q3008	2SC2295	TRANSISTOR	1	
Q3009	2SB709	TRANSISTOR	1	(S)
Q3301-04	2SC2295	TRANSISTOR	4	
Q3310	2SC2295	TRANSISTOR	1	
Q4001	2SD639	TRANSISTOR	1	(R)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4103	2SD1328	TRANSISTOR CHIP	1	
Q4201-05	2SD1306	TRANSISTOR	5	
Q4501	MSD601	TRANSISTOR	1	
Q4502,03	2SD1757K	TRANSISTOR	2	
Q4504	MSB709	TRANSISTOR	1	
Q5001	2SC2295	TRANSISTOR	1	
Q5002,03	2SD601	TRANSISTOR CHIP	2	
Q5004,05	2SC2295	TRANSISTOR	2	
Q5006	2SB709	TRANSISTOR CHIP	1	
Q5007-13	2SC2295	TRANSISTOR	7	
Q5014	2SB709	TRANSISTOR CHIP	1	
Q5015	2SC2295	TRANSISTOR	1	
Q6002	2SB790	TRANSISTOR	1	(R,S)
Q6003	2SB709	TRANSISTOR CHIP	1	
Q6004	2SB790	TRANSISTOR	1	(R,S)
Q6006	2SD893	TRANSISTOR	1	
Q6007	2SD973	TRANSISTOR	1	
Q6008	2SD636	TRANSISTOR	1	
Q6011	2SD1656	TRANSISTOR	1	
Q6012	2SD636	TRANSISTOR	1	
Q6013-15	2SD601	TRANSISTOR CHIP	3	
Q6017	2SD601	TRANSISTOR CHIP	1	
Q7301	2SD601	TRANSISTOR	1	(S,T)
Q7302	2SD1328	TRANSISTOR	1	(S)
Q7303	2SD1328	TRANSISTOR CHIP	1	(S,T)
Q7304,05	2SD601	TRANSISTOR CHIP	2	
Q7306	2SC2404	TRANSISTOR CHIP	1	(C,D)
Q7307	2SD1328	TRANSISTOR	1	(S)
Q8301	2SD601	TRANSISTOR CHIP	1	
Q8302	2SC2295	TRANSISTOR	1	
		COMBINATION PARTS		
QR301-04	UN2213	TRANSISTOR-RESISTOR	4	
QR305	UN2110	TRANSISTOR-RESISTOR	1	
QR310,11	UN2213	TRANSISTOR-RESISTOR	2	
QR701,02	MRN1404	TRANSISTOR-RESISTOR	2	
QR711,12	MRN1403	TRANSISTOR-RESISTOR	2	
QR801-05	UN2213	TRANSISTOR-RESISTOR	5	
QR1001	UN2211	TRANSISTOR-RESISTOR	1	
QR1002	UN2213	TRANSISTOR-RESISTOR	1	
QR1006	UN2211	TRANSISTOR-RESISTOR	1	
QR1010	UN6112	TRANSISTOR-RESISTOR	1	
QR1011	UN6113	TRANSISTOR-RESISTOR	1	
QR1012	MRN2404	TRANSISTOR-RESISTOR	1	
QR2001	UN2211	TRANSISTOR-RESISTOR	1	
QR2201,02	UN2117	TRANSISTOR-RESISTOR	2	
QR2206-09	UN2213	TRANSISTOR-RESISTOR	4	
QR2210	UN2212	TRANSISTOR-RESISTOR	1	
QR2213	UN2112	TRANSISTOR-RESISTOR	1	
QR2214	UN2213	TRANSISTOR-RESISTOR	1	
QR2215	UN2113	TRANSISTOR-RESISTOR	1	
QR2301	UN2213	TRANSISTOR-RESISTOR	1	
QR2302	UN2113	TRANSISTOR-RESISTOR	1	
QR2303-06	UN2213	TRANSISTOR-RESISTOR	4	
QR2307	UN2113	TRANSISTOR-RESISTOR	1	
QR3001,02	UN2213	TRANSISTOR-RESISTOR	2	
QR3003,04	UN2111	TRANSISTOR-RESISTOR	2	
QR3005	UN2213	TRANSISTOR-RESISTOR	1	
QR3006	UN2212	TRANSISTOR-RESISTOR	1	
QR3007	UN2214	TRANSISTOR-RESISTOR	1	
QR3008	UN2111	TRANSISTOR-RESISTOR	1	
QR3009	UN2213	TRANSISTOR-RESISTOR	1	
QR3012	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3013	UN211D	TRANSISTOR-RESISTOR	1	
QR3014	UN2211	TRANSISTOR-RESISTOR	1	
QR3020	MRN1404	TRANSISTOR-RESISTOR	1	
QR3301-03	UN2213	TRANSISTOR-RESISTOR	3	
QR3901	UN2213	TRANSISTOR-RESISTOR	1	
QR3902	UN2113	TRANSISTOR-RESISTOR	1	
QR4001	UN2213	TRANSISTOR-RESISTOR	1	
QR4101	UN2213	TRANSISTOR-RESISTOR	1	
QR4102	UN2113	TRANSISTOR-RESISTOR	1	
QR4103,04	UN2112	TRANSISTOR-RESISTOR	2	
QR4105	UN2213	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR4501,02	MRN1404	TRANSISTOR-RESISTOR	2	
QR5001-04	DTC363EK	TRANSISTOR-RESISTOR	4	
QR5006	UN2213	TRANSISTOR-RESISTOR	1	
QR6003,04	UN2213	TRANSISTOR-RESISTOR	2	
QR6005-09	UN2211	TRANSISTOR-RESISTOR	5	
QR6010	UN2213	TRANSISTOR-RESISTOR	1	
QR6011	UN2211	TRANSISTOR-RESISTOR	1	
QR6013	UN2111	TRANSISTOR-RESISTOR	1	
QR6014	UN2113	TRANSISTOR-RESISTOR	1	
QR6015-17	UN2213	TRANSISTOR-RESISTOR	3	
QR6018	UN2113	TRANSISTOR-RESISTOR	1	
QR6019,20	UN2213	TRANSISTOR-RESISTOR	2	
QR6021	UN2113	TRANSISTOR-RESISTOR	1	
QR6022	UN2111	TRANSISTOR-RESISTOR	1	
QR6024	UN2113	TRANSISTOR-RESISTOR	1	
QR6025	UN2212	TRANSISTOR-RESISTOR	1	
QR6027	UN2213	TRANSISTOR-RESISTOR	1	
QR6028-31	UN2212	TRANSISTOR-RESISTOR	4	
QR7301,02	UN2214	TRANSISTOR-RESISTOR	2	
QR7312-14	UN2211	TRANSISTOR-RESISTOR	3	
QR7851	UN2211	TRANSISTOR-RESISTOR	1	
QR7852	UN2213	TRANSISTOR-RESISTOR	1	
		RESISTORS		
R302	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R306	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R307	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R308	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R309	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R310	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R312	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R313	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R314	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R315	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R316	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R317	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R318,19	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R320,21	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R322	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R323	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R324	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R325	ERJ6GEYJ911	M.RESISTOR CH 1/10W 910	1	
R326	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R327	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R328	ERJ6GEYJ273	M.RESISTOR CH 1/10W 270K	1	
R330	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R331	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R332	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R337	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R338	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R339	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R340	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R341	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R345	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R712	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R713	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R714	ERD2FCG330	C.RESISTOR 2W 33	1	
R715	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R717	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R718	ERJ6GEYJ754	M.RESISTOR CH 1/10W 750K	1	
R719,20	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R721	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R722	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R723	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R724	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R725	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R726	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R727	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R728	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R737	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R738	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R740	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R741	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R743	ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R744	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R745	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R746	ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R747	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R750	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R759	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R772	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R781	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R782	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R792	ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R801	ERJ6GEYJ273	M.RESISTOR CH 1/10W 270K	1	
R802	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R803	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R808	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R809,10	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R811	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R812	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R813	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R814	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R815	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R816	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R817	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R818	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R819	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R820	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R821	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R825	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R826	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R827	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R840	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R851	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R852	ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R853	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R854	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R855	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R856	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1002	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R1003	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R1004	ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R1005	ERDS1TJ822	C.RESISTOR 1/2W 8.2K	1	
R1006	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R1007	ERJ6GMYG912	M.RESISTOR CH 1/10W 9.1K	1	
R1008	ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R1009	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1010	ERJ6GMYG682	M.RESISTOR CH 1/10W 6.8K	1	
R1011	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R1012	ERG2ANJ681	M.RESISTOR 2W 680	1	
R1013	ERG2ANJ821	M.RESISTOR 2W 820	1	
R1014	ERX1SJ1R2	M.RESISTOR 1W 1.2	1	
R1020	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R1021-23	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R1024	ERDS1TJ821	C.RESISTOR 1/2W 82K	1	
R1025	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2001	ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R2002	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2005	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2006	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2007	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2201	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2202	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R2203	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R2204	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2205	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2206	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2207	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2208	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2209	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R2210	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R2211-13	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R2214	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2215,16	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2217	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2218	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2219	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2220	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2221	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2222	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2223,24	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2225	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R2226	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R2227	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2228	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R2229-33	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	5	
R2236	ERJ6GMYG362	M.RESISTOR CH 1/10W 3.6K	1	
R2237	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2238,39	ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2240	ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2241,42	ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R2243	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2244	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2245	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2246	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2247	ERJ6GMYG394	M.RESISTOR CH 1/10W 390K	1	
R2248	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2249	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2250	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2251	ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R2252	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2253,54	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R2255	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2256	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2257	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R2258	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2259	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2260	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2261	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R2266	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2288	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2289	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2290	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2292	ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2301	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2304	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2323	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R2324-26	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	3	
R2327	ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R2328	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2329	ERJ6GMYG823	M.RESISTOR CH 1/10W 82K	1	
R2330,31	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2332,33	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	2	
R2334	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2335	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2336	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R3001	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3002	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3003	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3004	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3011	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3012	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3013	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3014	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3015	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3017	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3018-20	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R3025,26	ERJ6GMYG222	M.RESISTOR CH 1/10W 2.2K	2	
R3029	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3030	ERJ6GMYG222	M.RESISTOR CH 1/10W 2.2K	1	
R3031	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3032	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R3033,34	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3035	ERJ6GMYG202	M.RESISTOR CH 1/10W 2K	1	
R3036	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037-39	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R3040	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3041	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3042	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3043	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3044,45	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R3046-48	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R3049	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3050	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3051,52	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3053	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3054,55	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3056	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3057	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3058	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3059	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R3060	ERJ6GM20R00	M.RESISTOR CH 1/10W 0	1	
R3301	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3302	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3303	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3304	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3305	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3306	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3307	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3308	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3309	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3310	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3311	ERJ6GEYJ273	M.RESISTOR CH 1/10W 270K	1	
R3312	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3313	ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3314	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3315	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3316	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3317	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3318	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3319	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3320	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3321	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3344	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3345	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3346,47	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R3348	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3349,50	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3901,02	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3908	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3909-18	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	10	
R3919,20	ERJ6GEYJ333	M.RESISTOR CH 1/10W 330K	2	
R3921	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3922	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	1	
R3923	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3924	ERD2FCG220	C.RESISTOR 2W 22	1	
R3925	ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R4001	ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4002	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4003	ERJ6GMYJ203	M.RESISTOR CH 1/10W 20K	1	
R4004,05	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4007	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4008	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4009	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4010	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4012	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013	ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014	ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R4015	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4016	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4018	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4020	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4021	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4022	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4023	ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25	ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4030	ERJ6GMYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R4031	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4035	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4044	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4101	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4104	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4105,06	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4107	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4108	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4109	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4110	ERDS2CKG1003	M.RESISTOR 1/4W 100K	1	
R4111	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4112	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4113,14	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	2	
R4115	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4116	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4117	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4118	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4123	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4201	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R4202	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4203	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4204	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4205	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4206	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4207	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4208-13	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	6	
R4501	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4502	ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R4503	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4504	VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4505	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4506	ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R4507	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4508	ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	1	
R4511	ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R4512	VRE0034E912	M.RESISTOR CH 1/10W 9.1K	1	
R4513	VRE0034E272	M.RESISTOR CH 1/10W 2.7K	1	
R4514	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4515	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4516	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4517	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4518	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4519	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4520	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4521	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4522	ERJ6GMYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R4523	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4525,26	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R4527	VRE0034E223	M.RESISTOR CH 1/10W 22K	1	
R4528	VRE0034E393	M.RESISTOR CH 1/10W 39K	1	
R4529	ERJ6GMYG163	M.RESISTOR CH 1/10W 16K	1	
R4530	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4533	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4534	VRE0034E152	M.RESISTOR CH 1/10W 1.5K	1	
R4535	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4536	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4539	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4540	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4541	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R4551	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4552	ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R4553	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4554	VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4555	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4556	ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R4557	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4558	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4561	ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R4562	VRE0034E113	M.RESISTOR CH 1/10W 11K	1	
R4563	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4564	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4565	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4566	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4567	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4568	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4569	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4573	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4574	ERJ6GMYJ680	M.RESISTOR CH 1/10W 68	1	
R4576	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4577	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4578	VRE0034E113	M.RESISTOR CH 1/10W 11K	1	
R4902,03	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4908,09	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	2	
R4910,11	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4912,13	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	2	
R4916,17	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R4924	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4925	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4926	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4927	ERJ6GEYG163	M.RESISTOR CH 1/10W 16K	1	
R4928	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4929,30	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4931	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4932	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4933	ERJ6GEYG163	M.RESISTOR CH 1/10W 16K	1	
R4934	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4935	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4936	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4937	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4938	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4939	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4940	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4941	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4943-46	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R5001	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R5002	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5003-05	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	3	
R5006	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R5007	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5008	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5009	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5010	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5011	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R5012-14	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R5015	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5016	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5017	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5018	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5019	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R5020	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5021	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5022	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5023	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5024	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5025	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5026	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R5027	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5028	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5029	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5030	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R5031	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5033-35	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R5036,37	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	2	
R5038	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5039	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5040	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5041	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R5042	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R5043	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R5044	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R5045	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R5046	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R5047,48	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R5049	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5050	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5051	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R5052	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5053	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5054	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5055,56	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R5057	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R5058	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6001	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6005	ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6006,07		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R6008		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6009		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6010,11		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R6016		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6017		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6018		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6019		ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R6020		ERG2SJ150	M.RESISTOR 2W 15	1	
R6021		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6023		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6029		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6030		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R6031		ERJ6GMYG242	M.RESISTOR CH 1/10W 2.4K	1	
R6032		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6033		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6034		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R6035		ERSF30JR90	M.RESISTOR 0.9	1	
R6036		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6038		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6039,40		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R6042		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6043,44		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6045,46		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R6047		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6048-50		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R6051,52		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	2	
R6054		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R6055		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6056		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R6057		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6058		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6059		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6060		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6061		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6062,63		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	2	
R6064-66		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	3	
R6067		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R6068		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6069		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R6071		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6072		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6073-75		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6076		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6077,78		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R6079		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6080		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6081,82		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6083		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6084		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6085		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6087		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6088		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6089		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R6090		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6091		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R6092		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R6093		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R6094-98		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	5	
R6101		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6102		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6105		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6106		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6107,08		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R6109		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6111		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6112		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6113		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6114		ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R6115		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6119-22		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R6123		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R6128,29		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6130,31		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R6132		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6133		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6136,37		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R6138		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7302		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7303		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7304		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7305		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7306		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7307		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7308		ERJ6GEYJ273	M.RESISTOR CH 1/10W 270K	1	
R7309		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7311		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7312		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7313		ERJ6GEYJ824	M.RESISTOR CH 1/10W 820K	1	
R7314,15		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R7316		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7317		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7318		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R7321,22		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R7323		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7324		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R7325		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R7329		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7330		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7331		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7333		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7334-37		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	4	
R7338		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7339		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R7340		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7341		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7342		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7343,44		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R7345		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7346		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7347		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7348		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7349		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7350		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R7351		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7656		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7801		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7802		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R7803,04		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7805		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7806		ERJ6GEYG362	M.RESISTOR CH 1/10W 3.6K	1	
R7807		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7851		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7852		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7860		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8301		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8302		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8303,04		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8305,06		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R8307		ERJ6GEYJ333	M.RESISTOR CH 1/10W 330K	1	
R8308		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8309		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8310		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8311		ERJ6GEYJ273	M.RESISTOR CH 1/10W 270K	1	
R8312		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8313		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8314		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8315,16		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
			SWITCHES		
SW3901		VSS0228	SWITCH	1	
SW3902		VSS0196	SWITCH	1	
			TRANSFORMERS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T710		EULBEF023	TRANSFORMER	1	
T851		ELM7Q207A	TRANSFORMER	1	
T4001		EIQ7QF013Q	TRANSFORMER	1	
T7301		EIR7QG001B	TRANSFORMER	1	
T7302,03		EIL7QH012Q	TRANSFORMER	2	
T7304		EIS5EC007A	TRANSFORMER	1	
T7305		EIS5EC005A	TRANSFORMER	1	
			THERMISTOR		
TH3301		ERTD2FIK154S	THERMISTOR	1	
			RESISTORS		
VR301		EVNDRAA00B13	V.RESISTOR 1K	1	
VR302		EVND1AA00B13	V.RESISTOR 1K	1	
VR303		EVN32CA00B52	V.RESISTOR 500	1	
VR701,02		EVN4LCA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR801		EVND1AA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2006		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2009,10		EVND4AA00B25	V.RESISTOR 200K	2	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2013		EVNDRAA00B23	V.RESISTOR 2K	1	
VR2018,19		EVNDRAA00B15	V.RESISTOR 100K	2	
VR3001		EVNDRAA00B23	V.RESISTOR 2K	1	
VR3301		EVN4YCA00B13	V.RESISTOR 1K	1	
VR3302		EVNDRAA00B24	V.RESISTOR 20K	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
VR4004		EVNDRAA00B53	V.RESISTOR 5K	1	
VR4501		EVMFNGA00B14	V.RESISTOR 10K	1	
VR4502		EVMF8GA00B24	V.RESISTOR 20K	1	
VR4503		EVNDRAA00B23	V.RESISTOR 2K	1	
VR4507		EVN3ACA00B24	V.RESISTOR 20K	1	
VR4509		EVMFNGA00BS3	V.RESISTOR	1	
VR4510		EVN4LCA00B25	V.RESISTOR 200K	1	
VR5001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR5002		EVND1AA00B54	V.RESISTOR 50K	1	
VR5003		EVND4AA00B24	V.RESISTOR 20K	1	
VR5004,05		EVN49CA00B52	V.RESISTOR 500	2	
VR7301		EVN38CA00B14	V.RESISTOR 10K	1	
VR7326		EVN38CA00B52	V.RESISTOR 500	1	
VR7328		EVN38CA00B52	V.RESISTOR 500	1	
VR7340		EVNE4AA00B14	V.RESISTOR 10K	1	
VR7342		EVNF4AA00B53	V.RESISTOR 5K	1	
VR7344		EVNE1AA00B14	V.RESISTOR 10K	1	
VR8301		EVN4YCA00B52	V.RESISTOR 500	1	
VR8302		EVNDRAA00B13	V.RESISTOR 1K	1	
			CRYSTAL OSCELLATORS		
X710		EFCH38MSP2	CRYSTAL OSCILLATOR	1	
X711		VLF0638	CRYSTAL OSCILLATOR	1	
X715		ELB5A043	FILTER	1	
X716		EFCA31R90M1	CRYSTAL OSCILLATOR	1	
X717		EFCA40R40M1	FILTER	1	
X801		VSX0406	CRYSTAL OSCILLATOR	1	
X2201		VSX0225	CRYSTAL OSCILLATOR	1	
X3301		VSX0316	CRYSTAL OSCILLATOR	1	
X3303		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0306	CRYSTAL OSCILLATOR	1	
X6002		VSQ0565	CRYSTAL OSCILLATOR	1	
X7301,02		EFCS5R5MS5B	CRYSTAL OSCILLATOR	2	
X7303,04		EFCS5R74MS5B	CRYSTAL OSCILLATOR	2	
X7305		ELB5A016	FILTER	1	
X7651		EFOA4R0M03C2	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	FOR Q1001
		VSC1323	HEAT SINK	1	FOR Q6011

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		ENC17974	RF CONVERTER	1	<!>
		VJH0510	JACK PLATE	1	FOR RF CONVERTER
		VJF0442	CLAMPER	1	
		VWJ0392	FLEXIBLE WIRE (18PIN)	1	(P2202-P1505)
		VMZ1352	HEAT SINK COVER	1	(FOR SERVO PACK)
		VJF0368	C.B.A. SUPPORTER	2	(FOR SERVO PACK)
		VJF0368	C.B.A. SUPPORTER	2	(FOR Y/C PACK)
		VSC2908	SHIELD (TOP)	1	(FOR HQ PACK)
		VSC2909	SHIELD (MAIN)	1	(FOR HQ PACK)
		VSC2910	SHIELD (BOTTOM)	1	(FOR HQ PACK)
		VJF0368	C.B.A. SUPPORTER	2	(FOR HQ PACK)
		VMZ1526	INSULATION SHEET	1	(FOR HQ PACK)
		VJR0164	PACK PIN (10P)	4	(FOR I/O PACK)
		VEJ1071	I/O JACK PLATE	1	(FOR I/O PACK)
		VGU2707	SWITCH KNOB	2	(FOR I/O PACK)
		ENV57850H6	TUNER	1	<!>(FOR DECODER PACK)
		VSC2713	SHIELD (MAIN)	1	(FOR DECODER PACK)
		VSC2712	SHIELD (TOP)	1	(FOR DECODER PACK)
		VSC2714	SHELD (BOTTOM)	1	(FOR DECODER PACK)
	■	VEP03821A	SUB LUMINANCE & CHROMINANCE		(NLA)
			C.B.A.		
			CAPACITORS		
C3501		ECEA1IKS010	E.CAPACITOR 50V 1U	1	
C3502		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C3503		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3504		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3506		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3508		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C3509,10		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	2	
C3511		ECEA0JSN470	E.CAPACITOR 6.3V 47U	1	
C3512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3515		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C3516		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	
C3517,18		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C3519		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3520,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3551,52		ECEA1CKN100	E.CAPACITOR 16V 10U	2	
C3553		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3554		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3555		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3556,57		ECEA1AK470	E.CAPACITOR 10V 47U	2	
C3558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3559		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3560		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3561		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3562		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3563,64		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3567		ECEA1CK100	E.CAPACITOR 16V 10U	1	
			FILTERS		
FL3501,02		VLF0523	FILTER	2	
FL3503,04		VLF0526	FILTER	2	
FL3505		ELB4H054	FILTER	1	
FL3551		VLF0765	FILTER	1	
FL3552		VLF0766	FILTER	1	
			INTEGRATED CIRCUITS		
IC3504		CXL1009P	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC3505		AN78L09	IC	1	
IC3551		M52055FP	IC	1	
IC3552		M52055FP	IC	1	
			COILS		
L3501-03		VLQEL05F101K	COIL 100UH	3	
L3510		VLP0053	COIL	1	
L3551,52		ELESP101KA	COIL 100UH	2	
			CONNECTORS		
P3502		VJP1234T	CONNECTOR(MALE) 7P	1	
P3503		VJP1235T	CONNECTOR(MALE) 8P	1	
P3504		VJP2776	CONNECTOR(MALE)	1	
P3505		VJP2775	CONNECTOR(MALE)	1	
P3506		VJS2776	CONNECTOR(FEMALE)	1	
P3507		VJS2775	CONNECTOR(FEMALE)	1	
P3508		VJP1234T	CONNECTOR(MALE) 7P	1	
P3509		VJP1231T	CONNECTOR(MALE) 4P	1	
			TRANSISTORS		
Q3506		2SC2295	TRANSISTOR	1	
Q3507		2SB709	TRANSISTOR CHIP	1	
Q3508		2SC2295	TRANSISTOR	1	
Q3551		MSB709	TRANSISTOR	1	
Q3552		MSC2295	TRANSISTOR	1	(B,C)
Q3553		MSD601	TRANSISTOR	1	
Q3555		MSB709	TRANSISTOR	1	
Q3556		MSC2295	TRANSISTOR	1	(B,C)
Q3557		2SB709	TRANSISTOR	1	
Q3558		2SD601	TRANSISTOR	1	
			RESISTORS		
R3501		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R3502		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R3503		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3504		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3505		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3506		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3507		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3508,09		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3510		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3517		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3535		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3551		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3552		ERJ6GEYJ823	M.RESISTOR CH 1/10W 82K	1	
R3553		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3554		ERJ6GMYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3555		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3556,57		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3558		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3559,60		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3561		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3562,63		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3565-67		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3568		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3570		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3571		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3572		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3573,74		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
			RESISTORS		
VR3551		EVN4YCA00B53	V.RESISTOR 5K	1	
			CRYSTAL OSCILLATOR		
X3502		VSX0323	CRYSTAL OSCILLATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VSC2911	SHIELD (TOP)	2	(1H DELAY CCD PACK)
		VSC2912	SHIELD (MAIN)	1	(1H DELAY CCD PACK)
	■	VEP05149C	HEAD AMP C.B.A.		(NLA)
			CAPACITORS		
C501		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C502,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C504		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C505		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C507,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C509		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C511		ECUM1E473ZFN	C.CAPACITOR CH 25V 0.047U	1	
C513		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C514		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C515		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C516		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C517		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C518		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C519,20		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C523		ECUM1H040CCN	C.CAPACITOR CH 50V 4P	1	
C524,25		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	2	
C526		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C527		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C530		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C531		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C532		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C533		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C534		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C535		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C536		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C537		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C552		ECEA1CKE101	C.CAPACITOR 16V 100U	1	
C553		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C555-59		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C560		ECEA0JPK470	E.CAPACITOR 6.3V 47U	1	
C561		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C562,63		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	2	
C564,65		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C566		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C567		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C569		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
			DIODE		
D501,02		MA165	DIODE	2	
			INTEGRATED CIRCUITS		
IC501		AN3334K	IC	1	
IC502		VCR0271	IC	1	
IC551		BA7740FS	IC	1	
			COILS		
L502		VLQ0188K330	COIL 33UH	1	
L504		VLQEL05F101K	COIL 100UH	1	
L505		VLQ0188K330	COIL 33UH	1	
L506		VLQ0188K6R8	COIL 6.8UH	1	
L551,52		VLQEL05F101K	COIL 100UH	2	
L553,54		VLQ0213K2R2	COIL 2.2UH	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTORS		
P501		VJP1250T	CONNECTOR	1	
P502		VJS2603	CONNECTOR(FEMALE)	1	
P551		VJP1236T	CONNECTOR(MALE) 9P	1	
			TRANSISTOR		
Q501		2SB709	TRANSISTOR CHIP	1	
			RESISTORS		
R501		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R502		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R503		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R507		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R508		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R510		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R511		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R512		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R513		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R514		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R515,16		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R517,18		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	2	
R519		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R520		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R521		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R522		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R523		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R551,52		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R554		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R555		ERJ6GMYJ243	M.RESISTOR CH 1/10W 24K	1	
R556		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R557		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R558		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R559		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R560		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R561,62		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R563		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R564		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R565		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R566,67		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R568		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
			RESISTOR		
VR501,02		EVND1AA00B23	V.RESISTOR 2K	2	
			MISCELLANEOUS		
		VSC2668	SHIELD(TOP)	1	
		VSC2669	SHIELD(BOTTOM)	1	
		VSC2670	SHIELD(MAIN)	1	
	■	VEP06731B	VR C.B.A.		(NLA)
			CAPACITORS		
C6303,04		ECQB1H103KH	P.CAPACITOR 50V 0.01U	2	
C6501,02		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	2	
C6503		ECEA1AKS330	E.CAPACITOR 10V 33U	1	
C6504		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	
C6505		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6507		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6508,09		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	2	
C6510		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			LED		
D6501		LN21RCPHL	LED	1	
			INTEGRATED CIRCUIT		
IC6501		VCR0172	IC	1	
			CONNECTORS		
J6301		VJJ0238	CONNECTOR	1	
J6302		VJJ0210	MIC JACK	1	
			COILS		
L6301,02		VLQ0188J221	COIL 220UH	2	
L6501,02		VLQELD5F471K	COIL 470UH	2	
			CONNECTORS		
P6501		VJP1249T	CONNECTOR(MALE) 9P	1	
P6502		VJS2357A015	CONNECTOR(FEMALE)	1	
P6503		VJP1394T	CONNECTOR(MALE)	1	
P6504		VJP1243T	CONNECTOR(MALE) 3P	1	
			RESISTORS		
R6501		ERDS2CKG4701	M.RESISTOR 1/4W 4.7K	1	
R6502		ERDS2CKG5600	M.RESISTOR 1/4W 560	1	
R6503		ERDS2CKG4701	M.RESISTOR 1/4W 4.7K	1	
R6504		ERDS2CKG5600	M.RESISTOR 1/4W 560	1	
R6505		ERDS2CKG2701	M.RESISTOR 1/4W 2.7K	1	
R6506		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R6507		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			SWITCH		
SW6501		EVQQS307K	SWITCH	1	
			RESISTORS		
VR3004		EWAKFKXB3B24	V.RESISTOR 20K	1	
VR6501		EWAKA3XB3C23	V.RESISTOR 2K	1	
VR6503		EWANYHX05J54	V.RESISTOR 50K	1	
			MISCELLANEOUS		
		K1L04	LED SPACER	1	
		VYC0160	REC VR PANEL UNIT	1	
		VGU4495	REC VR KNOB	2	
		VJF0824	JACK HOLDER	1	
	■	VEP07622C	TIMER C.B.A.		(NLA)
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H471KB	C.CAPACITOR 50V 470U	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA03OE41	TRIMMER 3P	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C7503,04		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C7505		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7507		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7508		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7509,10		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C7511		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7512		ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	1	
C7513		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7520		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7521		ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	1	
C7522		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C7523,24		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	2	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7527		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7531		ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	1	
C7532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		MA3068	DIODE	1	
D7504		MA73	DIODE	1	
D7507		MA73	DIODE	1	
D7510,11		MA73	DIODE	2	
D7513		MA73	DIODE	1	
D7516-18		MA73	DIODE	3	
D7530		MA73	DIODE	1	
D7532-41		MA73	DIODE	10	
D7550,51		LN28RCPLV	DIODE	2	
D7553		LN28RCPLV	DIODE	1	
D7554		VLL0062	DIODE	1	
D7555		LN28RCPLV	DIODE	1	
D7556		LN38GCPLV	DIODE	1	
D7557		LN28RCPLV	DIODE	1	
D7560		MA73	DIODE	1	
			DISPLAY TUBE		
DP7501		VSL0144	DISPLAY TUBE	1	
			ICS		
IC6701		UPC1490HA	IC	1	
IC7501		MN187125VHP	IC	1	
IC7502		MN12C261D	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	
IC7505		BA6810S	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJS2651B013Z	CONNECTOR	1	
P7502,03		VJS2651B011Z	CONNECTOR	2	
P7505		VJS2357A020	CONNECTOR(FEMALE)	1	
P7506		VJS2651B008Z	CONNECTOR	1	
P7507		VJP2621	CONNECTOR(MALE)	1	
			COMBINATIONS		
QR7501		MRN1404	TRANSISTOR-RESISTOR	1	
QR7505		MRN2402	TRANSISTOR-RESISTOR	1	
QR7510,11		MRN2403	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R6703		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7501		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7506		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R7507		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7508-10		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511,12		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7523-32		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	10	
R7533		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7534		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7538		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7540		ERJ6GEYC223	M.RESISTOR CH 1/10W 22K	1	
R7541		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7542-44		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R7546		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7547		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7548		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R7549		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7550-56		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	7	
R7557		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7558,59		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R7570		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7571		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7572		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7573		ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
R7578		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R7579		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
			COMBINATION PARTS		
RX7501		EXBF11E104J	COMBI.R-R	1	
RX7502		EXBF8E104J	COMBI.R-R	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0693	FIP HOLDER	1	
		VMD1342	LED SPACER	1	
		VSC2671	SHIELD(MAIN)	1	(FOR IR RECEIVER)
		VSC2672	SHIELD(BOTTOM)	1	(FOR IR RECEIVER)
	■	VEP06537A	JOG SHUTTLE C.B.A.		(NLA)
			LED		
D6701-03		LN38GCPP	LED	3	
			CONNECTOR		
P6701		VJS2621	CONNECTOR(FEMALE)	1	
			COMBINATION PARTS		
QR6701		UN1112	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6701		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R6702		ERDS2CKG1002	M.RESISTOR 1/4W 10K	1	
R6703		ERDS2CKG1802	M.RESISTOR 1/4W 18K	1	
R6704-06		ERDS2CKG1801	M.RESISTOR 1/4W 1.8K	3	
R6707		ERDS2CKG1002	M.RESISTOR 1/4W 10K	1	
R6708		ERDS2TJ681	C.RESISTOR 1/4W 680	1	
R6709		ERDS2CKG9102	M.RESISTOR 1/4W 91K	1	
R6710		ERDS2CKG1202	M.RESISTOR 1/4W 12K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6711		ERDS2CKG683	M.RESISTOR 1/4W 68K	1	
R6712		ERDS2CKG333	M.RESISTOR 1/4W 33K	1	
R6713		ERDS2CKG513	M.RESISTOR 1/4W 51K	1	
R6714		ERDS2CKG123	M.RESISTOR 1/4W 12OK	1	
			SWITCHES		
SW6701		EVQQS307K	SWITCH	1	
			MISCELLANEOUS		
		VSQ0651	JOG/SHUTTLE ENCODER	1	
		VMX1652	LED SPACER	3	
	■	VEP01353N	POWER C.B.A.		<!>(NLA)
			CAPACITORS		
C1101		ECQU2A224MN	P.CAPACITOR 100V 0.22U	1	
C1102		ECQU2A154MN	P.CAPACITOR 100V 0.15U	1	
C1108		ECOS2GA820A	E.CAPACITOR 400V 82U	1	
C1109		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1110		ECQE6473JZ	P.CAPACITOR 630V 0.047U	1	
C1111		ECKD3D331KB	C.CAPACITOR 2KV 330P	1	
C1112		ECQB1H682JZ	P.CAPACITOR 50V 6800P	1	
C1113		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C1114		ECA1CXLV470	E.CAPACITOR 16V 470U	1	
C1115		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C1117		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1118		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1119,20		ECA1CFZ681	E.CAPACITOR 16V 680U	2	
C1121		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1122		ECA1AFZ681	E.CAPACITOR 10V 680U	1	
C1123		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1124,25		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1126		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1127		ECAOJFZ471	E.CAPACITOR 6.3V 470U	1	
C1128-31		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
C1132		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1134,35		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	
C1136		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C1142		VCC0021	C.CAPACITOR	1	
C1145		VCC0021	C.CAPACITOR	1	
C1147		VCC0022	C.CAPACITOR 1000P	1	
			DIODES		
D1102		S1WBA60	DIODE	1	
D1103		VSD0002	DIODE	1	
D1104		AP01C	DIODE	1	
D1105		MA178	DIODE	1	
D1106		MA4030L	DIODE	1	
D1107		MA165	DIODE	1	
D1108		ERA22-02	DIODE	1	
D1109		FMLG12SP	DIODE	1	
D1110		MA185	DIODE	1	
D1111		FMBG14L	DIODE	1	
D1112		ERB83-004	DIODE	1	
D1113		MA2200B	DIODE	1	
D1114		MA4130L	DIODE	1	
			INTEGRATED CIRCUITS		
IC1101		STRD6008X	IC	1	
IC1102		STK5391	IC	1	
IC1103		SE013E	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COILS		
L1101,02		ELF18D221F	COIL	2	
L1103		ELC07B009	COIL	1	
			FILTER		
L1104-07		VLP0085	FILTER	4	
			CONNECTORS		
P1101		VJS2651B014Z	CONNECTOR	1	
P1102		VJS2625	CONNECTOR(FEMALE)	1	
			TRANSISTORS		
Q1101		PC111	PHOTO COUPLER	1	
Q1102		2SD1996	TRANSISTOR	1	
			RESISTORS		
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	
R1102,03		ERDS1TJ563	C.RESISTOR 1/2W 56K	2	
R1104		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1105		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1106		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1107		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1108		ERD2FTVG681	C.RESISTOR 1/4W 680	1	
R1109		ERDSZTJ221	C.RESISTOR 1/4W 22	1	
R1110		ERG2SJ330	M.RESISTOR 2W 33	1	
R1111		ERG3SJ270	M.RESISTOR 3W 27	1	
R1113		ERG1SJ182	M.RESISTOR 1W 1.8K	1	
R1114		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1123,24		ERDSZTJ474	C.RESISTOR 1/4W 470K	2	
R1125		ERW1PK2R2	W.RESISTOR 1W 2.2	1	
			TRANSFORMER		
T1101		VLT0569	TRANSFORMER	1	<!>
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	4	
		VMZ1183	CAPACITOR COVER (A)	1	
		VMZ1184	CAPACITOR COVER (B)	1	
	■	VEX0117	CYLINDER DRIVE C.B.A.		(NLA)
			CAPACITORS		
C2901-03		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	3	
C2904-06		ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	3	
C2907		ECUM1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908		ECUM1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2909		ECQV1H104JS	P.CAPACITOR 50V 0.1U	1	
C2910,11		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C2912		ECEAOJKS220	E.CAPACITOR 6.3V 22U	1	
			INTEGRATED CIRCUIT		
IC2901		AN3815K	IC	1	
			CONNECTORS		
P2901		VJP2603W	CONNECTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P2902		VJP1232T	CONNECTOR(MALE) 5P	1	
			RESISTORS		
R2901		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
			THERMISTOR		
TH2901		VRH0017	THERMISTOR	1	
	■	VEP00K88C	PE HEAD C.B.A.		(NLA)
			CAPACITORS		
C1401		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C1402		ECQB1H472JZ	P.CAPACITOR 50V 4700P	1	
C1403		ECQB1H333KZ	P.CAPACITOR 50V 0.033U	1	
			COMBINATION PART		
CR1401		EXED103Z333C	CAPACITOR-RESISTOR	1	
			COIL		
L1401		VLQ0188J101	COIL 100UH	1	
			CONNECTOR		
P1502		VJP1148	CONNECTOR 2P	1	
			TRANSISTOR		
Q1401		2SD636	TRANSISTOR	1	
			TRANSFORMER		
T1401		EIQ7QF012Q	TRANSFORMER	1	
	■	VEP00M86A	FG AMP C.B.A.		(NLA)
			CAPACITORS		
C1510		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C1511		ECUM1H104ZFM	C.CAPACITOR CH 50V 0.1U	1	
C1512		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C1513		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C1514		ECUM1H104ZFM	C.CAPACITOR CH 50V 0.1U	1	
			INTEGRATED CIRCUIT		
IC1501		UPC358G	IC	1	
			FILTER		
L1510,11		VLP0083	FILTER	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTORS		
P1505		VJS1456	CONNECTOR(FEMALE)	1	
P1506		VJS1685	CONNECTOR(FEMALE)	1	
			RESISTORS		
R1510		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1511		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R1512		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R1513-16		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R1517		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R1518		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1519		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
	■	VXA3825	MECHANISM CONNECTION C.B.A.		(NLA)
			INTEGRATED CIRCUITS		
IC1501,02		ON2170	PHOTO COUPLER	2	
			CONNECTOR		
P1504		VJS1493	CONNECTOR 15P	1	
			MISCELLANEOUS		
		VMA7829	REINFORCEMENT PLATE (F)	1	
		VMA7830	REINFORCEMENT PLATE (R)	1	
		VME1366	PROTECTION SHEET	1	
	■	VEK3578	PHOTO Tr.(S) C.B.A.		(NLA)
			CAPACITOR		
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			TRANSISTOR		
Q1501		PN150NVS	TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	
	■	---------	PHOTO Tr.(T) C.B.A.		
			CAPACITOR		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			CONNECTOR		
P1503		VJS2165W	CONNECTOR 6P	1	
			TRANSISTOR		
Q1502		PN150NVS	TRANSISTOR	1	
			RESISTOR		
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	
	■	VEP66151B	REMOTE CONTROLLER C.B.A.		(NLA)
			CAPACITORS		
C6801		ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C6802,03		ECUM1H221JN	C.CAPACITOR CH 50V 220P	2	
C6804		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C6805		ECEA1HKSR22	E.CAPACITOR 50V 22U	1	
C6806		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
			DIODES		
D6801		SE303ACYTF	DIODE	1	
D6802		LN25RCP	DIODE	1	
D6804-12		MA221	DIODE	9	
			INTEGRATED CIRCUIT		
IC6801		M34200V1AF	IC	1	
			CONNECTOR		
P6801		VJS2849	CONNECTOR	1	
			TRANSISTORS		
Q6801		MSB709-R	TRANSISTOR	1	
Q6802-05		MSD601-R	TRANSISTOR	4	
Q6806		MSB709-R	TRANSISTOR	1	
Q6807,08		MSD601-R	TRANSISTOR	2	
			COMBINATIONS		
QR6801		UN7231	TRANSISTOR-RESISTOR	1	
QR6802		MRN1404	TRANSISTOR-RESISTOR	1	
QR6804		MRN1407	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6801		ERJ8GCYJ8R2	M.RESISTOR CH 1/8W 8.2K	1	
R6802		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6804		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6806,07		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R6808		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6809		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6810		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6811		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6812		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6813		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6814		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6816		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6817-22		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	6	
R6824		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6825		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R6826		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6827		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6828		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6831		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6835		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6836		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6837		ERJ8GCYJ8R2	M.RESISTOR CH 1/8W 8.2K	1	
			SWITCH		
SW6801		VSS0126	SWITCH	1	
			CRYSTAL OSCILLATOR		
X6801		EFOA440KT4A1	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJR0576	ELECTRODE (+)	1	
		VJR0577	ELECTRODE (-)	1	
	■	VEP66077C	DIGITAL SCANNER C.B.A.		(NLA)
			CAPACITORS		
C02		ECEV1CAN4R7	E.CAPACITOR 16V 4.7U	1	
C03-05		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	3	
C06		ECEV1CA470	E.CAPACITOR 16V 47U	1	
C07,08		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C09		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	1	
C10-12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C13		ECEV1HA010	E.CAPACITOR 50V 1U	1	
			DIODES		
D04		MA151A	DIODE	1	
D06		SE303ACY	DIODE	1	
			INTEGRATED CIRCUITS		
IC01		MN158453VFL	IC	1	
IC02		AN8355S	IC	1	
			COIL		
L01		ELT3K017B	COIL	1	
			LCD		
LCD01		VSL0177	LCD	1	
			TRANSISTORS		
Q02		2SB710	TRANSISTOR CHIP	1	(Q,R,S)
Q03		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q04		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
			COMBINATIONS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR02		EN1L4M	TRANSISTOR-RESISTOR	1	
QR04		EA1L4Z	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R01		ERJ6GMYJ120	M.RESISTOR CH 1/10W 12	1	
R02		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R03		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R04		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R05		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R06		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R07		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R08		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R09		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R13		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R16,17		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R18		ERJ8GCYJ120	M.RESISTOR CH 1/8W 12	1	
R19		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R21		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R29		ERJ8GCYJ150	M.RESISTOR CH 1/8W 15	1	
			SENSOR		
SN01		VSQ0567	SENSOR	1	
			SWITCHES		
SW01		VSS0126	SWITCH	1	
SW02		EVQQFV02K	SWITCH	1	
			RESISTOR		
VR09		EVNDXAA00B34	V.RESISTOR 30K	1	
			CRYSTAL OSCILLATORS		
X01		VSX0245	CRYSTAL OSCILLATOR	1	
X02		EFBAL30D001K	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMX1324	LCD SPACER	1	